E5RJ0BD_EN.book Page 1 Tuesday, October 20, 2009 3:53 PM

TOSHIBA

Blu-ray Disc Player

BDX2000KB

OWNER'S MANUAL

HIGH-DEFINITION MULTIMEDIA INTERFACE

Owner's Record

The model number and serial number are on the back of this unit. Record these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this unit.

Model number :

Serial number :

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INTRODUCTION

Safety Instructions

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The important note is located on the rear or bottom of the cabinet.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

The symbol for CLASS II (Double Insulation)

Caution

1. Do not attempt to open the cabinet. There are no parts inside you can service. Refer all servicing to qualified service personnel.
2. Slots and openings in the cabinet at the sides and underneath are provided for ventilation. To ensure reliable operation and to protect the unit from overheating, these openings must not be blocked or covered.
   Avoid installation in enclosed spaces such as bookcases unless suitable ventilation is provided.
3. Keep the unit away from radiators and other heat sources.
4. Avoid use near strong magnetic fields.
5. Do not push objects of any kind into the unit through the cabinet slots or openings as they could touch electrically live parts or short circuit parts resulting in a fire or electric shock.
6. To prevent fire or shock hazard, do not expose this apparatus to dripping or splashing, no objects filled with liquids, such as vases, should be placed on the apparatus.
7. Do not stand the unit vertically. Use the unit in a horizontal (flat) position only.
8. This product is in Stand-by mode when turned off while the mains cable is connected.
9. Do not place a flaming object such as a burning candle on the apparatus.
10. Before moving the unit, be sure to remove any media and unplug the mains cable from the AC outlet.
11. Disconnect the mains plug to shut off the unit, if you suspect a fault has developed, or if it will not be used for an extended period.
12. The mains plug shall remain readily operable and accessible.
13. Read both instruction manuals to ensure correct and safe installation and interconnection of the unit in multimedia systems.
14. Keep a distance of 20 cm around the ventilation openings of the apparatus.
15. Do not overload wall outlets; extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
16. Do not use a cracked , deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and apparatus malfunction.
17. If the apparatus should smoke or smell, immediately disconnect the power cord from the wall outlet.Wait until the smoke or smell stops, then ask your dealer for a check and repair. Neglecting to do so may cause fire.
18. While it is thundering, do not touch the connecting cables or the apparatus.

Laser Safety

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

CAUTION:
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION:
CLASS 2 LASER RADIATION WHEN OPEN
DO NOT STARE INTO THE BEAM

LOCATION:
- INSIDE, NEAR THE BD MECHANISM

CAUTION - LASER RADIATION WHEN OPEN.
DO NOT STARE INTO BEAM. (FDA 21CFR/Class II)
CAUTION - CLASS 2 LASER RADIATION WHEN OPEN
DO NOT STARE INTO THE BEAM (IEC60825-1/Class 2)
ATTENTION - RAYONNEMENT LASER DE CLASSE 2 EN CAS D'OUVERTURE
NE PAS REGARDER DANS LE FAISCEAU
注意 - ここを開くとクラス2のレーザー放射が出る
ビームをのぞき込まないこと

Avoid the Hazards of Electrical Shock and Fire

- Do not handle the mains cable with wet hands.
- Do not pull on the mains cable to disconnect it from AC outlet. Grasp it by the plug.
- If, by accident, water is spilled on the unit, unplug the mains cable immediately and take the unit to an authorised service centre for servicing.

Moisture Condensation Warning

Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place, after heating a cold room, or under conditions of high humidity. Do not use the unit for at least 2 hours to allow the inside to dry.

INTRODUCTION

Connection to Power

Before Switching on make sure that the voltage of your electricity supply is the same as that indicated on the rating plate.

Power Supply

The power supply is connected and the unit is live when the mains cable is plugged into a 220 - 240 V~, 50 Hz AC outlet.
To operate the unit, press **[ON/STANDBY ⏻]**.

WARNING: LIVE PARTS INSIDE.
DO NOT REMOVE ANY SCREWS.

Mains Cord

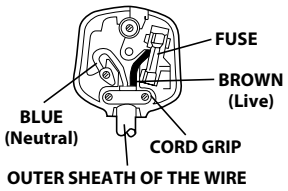
This apparatus may be fitted with a non-rewireable plug. If it is necessary to change the fuse in a nonrewireable plug the fuse cover must be refitted. If the fuse cover is lost or damaged, the plug must not be used until a replacement available from the apparatus manufacturer is obtained.
It is important that the colour of the replacement fuse cover corresponds with the rating marking on the base of the plug.
If the plug has to be changed because it is not suitable for your socket, or becomes damaged, it should be cut off and an appropriate plug fitted following the wiring instructions below.
The plug removed must be disposed of safely as insertion into a 13A socket is likely to cause an electrical hazard.
For your own safety read the following instructions carefully before attempting to connect this unit to mains.
The wires in this mains lead are coloured in accordance with the following code:
BLUE=NEUTRAL, BROWN=LIVE

Important

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.
No connection is to be made to the earth terminal of the plug.
If a 13 Amp (BS 1363) Plug is used, a 5 Amp Fuse must be fitted, or if any other type of Plug is used a 3 or 5 Amp Fuse must be fitted, either in the Plug or Adaptor, or on the Distribution Board.

Mains Supply: 220 - 240 V~ 50 Hz - AC only

Do not make any connection to the larger pin marked with the letter "E" or by the symbol or coloured green or green and yellow.



Installation Location

For safety and optimum performance of this unit:
- Install the unit in a horizontal and stable position.
- Keep the unit away from electronic equipment such as an amplifier, TV, etc. to prevent warping, damage, fire and malfunction.
- Do not place anything directly on top of the unit.
- Shield the unit from direct sunlight and keep away from sources of intense heat. Avoid dusty or humid locations. Avoid locations with insufficient ventilation for suitable heat dissipation. Do not block the ventilation holes on the sides of the unit. Avoid locations subject to strong vibration or strong magnetic fields.
- Do not locate near water.

Do not place the unit on the furniture that is capable of being tilted by a child and an adult leaning, pulling, standing or climbing on it. A falling unit can cause serious injury or even death.

EU Conformity Statement

"This product is marked with "CE" and complies therefore with the applicable harmonised European standards listed under the Low Voltage Directive 2006/95/EC and the EMC Directive 2004/108/EC."

Responsible for CE-marking is
TOSHIBA INFORMATION SYSTEMS (U.K.) LTD, Toshiba Court, Weybridge Business Park, Addlestone Road, Weybridge, Surrey, KT15 2UL, United Kingdom

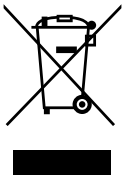
Other Precautions

About Recycle

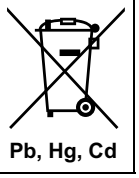
A NOTE ABOUT RECYCLING
This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.

This product consists of materials which can be recycled and reused if disassembled by a specialised company.

Following information is only for EU-member states:
The use of the symbol indicates that this product may not be treated as household waste. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



Following information is only valid EU-member States:
Disposal of batteries and/or accumulators
The crossed out wheeled dust bin symbol indicates that batteries and/or accumulators must be collected and disposed of separately from household waste. If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the Battery Directive (2006/66/EC), then the chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will appear below the crossed out wheeled dust bin symbol. By participating in separate collection of batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health. For more detailed information about the collection and recycling programmes available in your country, please contact your local city office or the shop where you purchased the product.



Make your contribution to the environment!!!
- Exhausted batteries do not belong in the dustbin.
- You can dispose of them at a collection point for exhausted batteries or special waste.
- Contact your council for details.

INTRODUCTION

About Copyright

Unauthorised copying, broadcasting, public performance and lending of discs are prohibited. This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorised by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorised by Macrovision. Reverse engineering or disassembly is prohibited.

About Maintenance

Cleaning the Unit

Use a soft cloth slightly moistened with a mild detergent solution. Do not use solutions containing alcohol, spirits, ammonia or abrasive.

Cleaning Discs

If a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the centre out. Do not wipe in a circular motion.
Do not use solvents such as benzine, thinner, commercially available cleaners, detergent, abrasive cleaning agents or antistatic spray intended for analogue records.

Disc Handling

Handle the discs so that fingerprints and dust do not adhere to the disc surfaces.
Always store the disc in its protective case when it is not in use.

Servicing

If the unit becomes inoperative, do not try to correct the problem by yourself. There are no user serviceable parts inside. Turn the unit off, unplug the mains cable, and consult your dealer or an authorised service centre.

Cleaning the Disc Lens

If the unit does not perform correctly even though you have referred to "Troubleshooting" and the relevant sections in the Owner's Manual, the laser optical pickup unit may be dirty. Consult your dealer or an authorised service centre for inspection and cleaning of the laser optical pickup unit.

IR Signal Check

- If the remote control is not working properly, you can use a digital camera (including a cellular phone with built-in camera) to see if it is sending out an infrared signal.

With a digital camera (including built-in cell phone cameras):

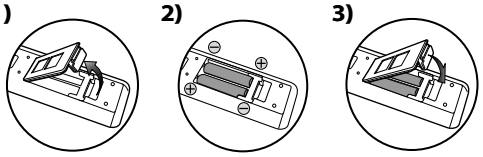
Point a digital camera towards the remote control. Push any button on the remote control and look through the digital camera. If the infrared light appears through the camera, the remote control is working.

Because of problems and errors that can occur during the creation of DVD and CD software and/or the manufacture of DVD and CD discs, Toshiba cannot assure that this Blu-ray Disc Player will successfully play every disc or every feature of every disc bearing the DVD logo and/or every CD bearing the CD logo. As one of the creators of DVD technology, Toshiba DVD players are manufactured using the highest standards of quality, and as a result, such incompatibilities are rare.

About Remote Control

Installing the Batteries in the Remote Control

Install 2 R6 (1.5V) batteries matching the polarity indicated inside battery compartment of the remote control.



Make sure to match + and - on the batteries to the marks indicated in the battery compartment.

Caution

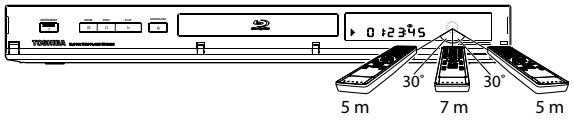
Incorrect use of batteries can result in hazards such as leakage and bursting. Please observe the following:

- Do not mix new and old batteries together.
- Do not use different kinds of batteries together. Although they may look similar, different batteries may have different voltages.
- Make sure that the + and - ends of each battery match the indications in the battery compartment.
- Remove batteries from battery compartment that are not going to be used for a month or more.
- When disposing of used batteries, please comply with governmental regulations or environmental public rules that apply in your country or area. (Refer to page 3.)
- Do not recharge, short-circuit, heat, burn or disassemble batteries.

Using a Remote Control

Keep in mind the following when using the remote control:

- Make sure that there are no obstacles between the remote control and the infrared sensor window on the unit.
- Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the infrared sensor window of the unit.
- Remote control for different devices can interfere with each other. Avoid using remote control for other device located close to the unit.
- Replace the batteries when you notice a fall off in the operating range of the remote control.
- The maximum operable ranges from the unit are as follows.
  - **Line of sight:** approx. 7 m
  - **Either side of the centre:** approx. 5 m within 30°
  - **Above:** approx. 5 m within 15°
  - **Below:** approx. 3 m within 30°



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Supplied Accessories

- Remote control with R6 (1.5V) battery x 2
- HDMI cable (High Speed HDMI Cable)
- Owner's manual
- Quick start guide
- Helpline sheet

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INTRODUCTION

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Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,392,195; 7,272,567; 7,333,929; 7,212,872 & other U.S. and worldwide patents issued & pending. DTS is a registered trademark and the DTS logos, Symbol, DTS-HD and DTS-HD Master Audio | Essential are trademarks of DTS, Inc. ©1996-2008 DTS, Inc. All Rights Reserved.

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INTRODUCTION

Features

BD-Java
With some BDs which support Java applications, you can enjoy the interactive functions such as games or interactive menus.

BD-Live
BD-Live (BD-ROM version 2 Profile 2.0) that allows interactive functions to be used when this unit is connected to the Internet in addition to the BONUSVIEW function. The various functions differ depending on the disc.

Full High-Definition Video Playback
Watch movies in the highest picture quality available for your HDTV. This unit offers full high-definition video playback up to 1080p resolution for an amazing viewing experience. A highly detailed picture and increased sharpness delivers a more true-to-life picture.

DVD Upconversion for Enhanced Picture Quality
Your current DVD will look even better than before thanks to video upconversion. Upconversion will increase the resolution of standard definition DVD to high definition up to 1080p over an HDMI connection. The picture will be less jagged and more realistic for a near high-definition experience.

Enjoy Your Content on Different Kinds of Media
Full backwards compatibility with BD, DVD, CD and SD card ensures that you can continue to enjoy your current audio-video collection. Additionally, you can enjoy AVCHD/DivX®/MP3/WMA/JPEG files.

Experience Rich Multi-Channel Surround Sound
Multi-channel surround sound, which recognises real-to-life sound and makes you feel like you are really there.

PIP (BONUSVIEW)
Some BD-video have the PIP function which enables you to display the secondary video in the primary video. You can call up the secondary video by pressing **[PIP]** whenever the scene contains the secondary video.

Pop-up Menu
Some BD-videos have pop-up menu which is a navigation menu that can be called up and be operated on the TV screen without interrupting the playback. You can call up the pop-up menu by pressing **[POP MENU / MENU]**. Contents in the pop-up menu vary depending on the disc.

Rapid Playback
Playback in slightly faster speed while keeping the sound output.
Rapid playback is available only on discs recorded in the Dolby Digital format.

Playback of Content from an SD Card
You can play back AVCHD/MP3/WMA/JPEG stored in an SD card.
You can store picture-in-picture commentary, subtitles or other extras for BD-ROM ver. 2 (Profile 2.0 / Profile 1.1) files in an SD card and play them back with the BD-video.

Playing Back AVCHD Files
This unit supports playback of AVCHD format files (new format for high definition video camcorders) recorded on disc/SD card. Your high definition personal archive is playable in HD quality.

x.v.Color
This unit supports playback of video contents on discs recorded with "x.v.Color" technology. To watch this video content with the "x.v.Color", a TV or other display device supporting both video image reproduction using the "x.v.Color" standard and capable of manually switching it's colour setting is required. Please refer to the owner's manual of your display device for further information.

Easy and Simple Connection to Your HDTV via HDMI
You can connect this unit to your HDTV with one single HDMI (High-Definition Multimedia Interface) cable. It is recommended to use a High Speed HDMI Cable for optimal compatibility. The high definition video output signal will be transferred to your HDTV without conversion to analogue signals, so you will get excellent picture and sound quality, completely free from noise.

HDMI Deep Colour
Deep Colour reduces the posterisation effect of the playback image. Refer to "HDMI Deep Color" in "FUNCTION SETUP" on page 28.

HDMI CEC (Consumer Electronics Control) (REGZA - LINK)
This unit supports HDMI CEC, which allows integrated system control over HDMI and is part of the HDMI standard.
This function may not work properly on some devices.

HDMI 1080p24 Output (BD Only)
This unit is equipped with a feature which can provide the smooth movement in the playback of film originated material with the frame rate of 24 frames per second with progressive scan. (Available only when the TV is connected by an HDMI cable and compatible with 1080p24 frame input.)
Refer to "HDMI Video Resolution" in "FUNCTION SETUP" on page 28.

HDCP Compatible
To play back the digital video images of a BD / DVD via an HDMI connection, it is necessary that both the unit and the TV (or an AV amplifier) support a copyright protection system called HDCP (high-bandwidth digital content protection system). HDCP is copy protection technology that comprises data encryption and authentication of the connected AV device. This unit supports HDCP. Please read the operating instructions of your TV (or AV amplifier) for more information.

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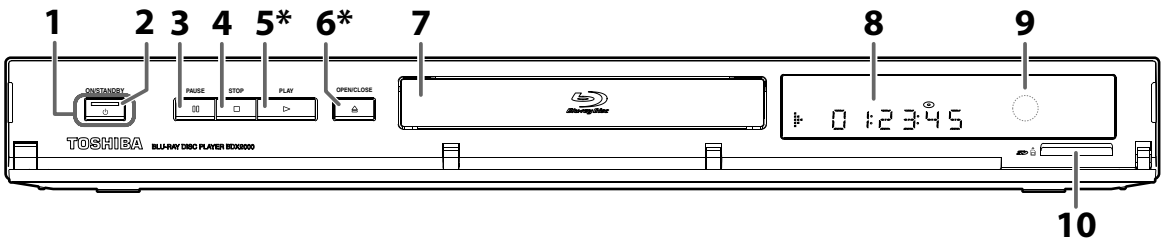
Functional Overview

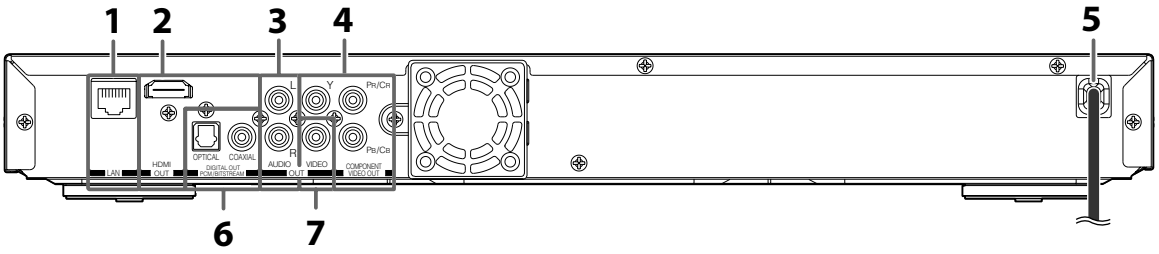
Front Panel



(*) The unit can also be turned on by pressing these buttons.

1. **ON/STANDBY ⏻ button**
   - Press to turn on the unit, or to turn the unit into the standby mode. (To completely turn off the unit, you must unplug the mains cable.)
2. **ON/STANDBY ⏻ indicator**
3. **PAUSE ❚❚ button**
4. **STOP ■ button**
5. **PLAY ▶ button***
6. **OPEN/CLOSE ⏏ button***
7. **Disc tray**
8. **Display**
9. **Infrared sensor window**
10. **SD card slot**

Rear Panel

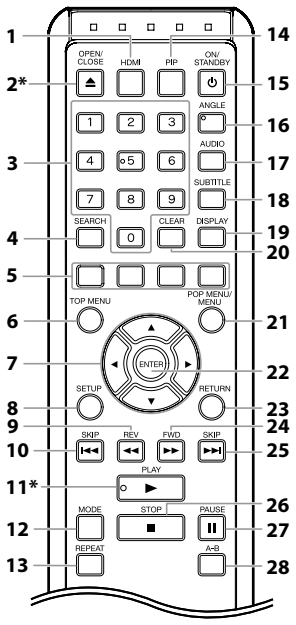


1. **LAN terminal**
2. **HDMI OUT jack**
3. **AUDIO OUT jacks**
4. **COMPONENT VIDEO OUT jacks**
5. **Mains cable**
6. **DIGITAL OUT (OPTICAL / COAXIAL) jacks**
7. **VIDEO OUT jack**

Caution

- Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit.

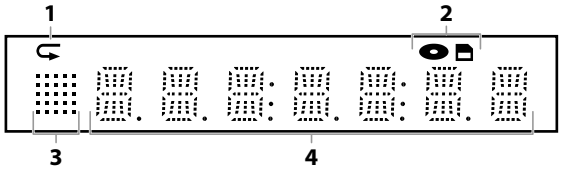
Remote Control



(*) The unit can also be turned on by pressing these buttons.

1. **HDMI button**
2. **OPEN/CLOSE ⏏ button***
3. **Number buttons**
4. **SEARCH button**
5. **Red / Green / Yellow / Blue buttons**
6. **TOP MENU button**
7. **▲ / ▼ / ◀ / ▶ buttons**
8. **SETUP button**
9. **REV ◀◀ button**
10. **SKIP ⏮ button**
11. **PLAY ▶ button***
12. **MODE button**
13. **REPEAT button**
14. **PIP button**
15. **ON/STANDBY ⏻ button**
    - Press to turn on the unit, or to turn the unit into the standby mode. (To completely turn off the unit, you must unplug the mains cable.)
16. **ANGLE button**
17. **AUDIO button**
18. **SUBTITLE button**
19. **DISPLAY button**
20. **CLEAR button**
21. **POP MENU / MENU button**
22. **ENTER button**
23. **RETURN button**
24. **FWD ▶▶ button**
25. **SKIP ▶▶⏭ button**
26. **STOP ■ button**
27. **PAUSE ❚❚ button**
28. **A-B button**

Front Panel Display

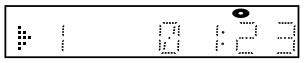


* Brightness of the display can be adjusted. Refer to "Panel Display" in "FUNCTION SETUP" on page 30.

1. **Displays repeat icon. (Appears during repeat playback.)**
2. **Displays media icon (disc mode or SD card mode).**
3. **Displays playback status icon. Refer to the table below.**
4. **Displays various kinds of information such as title number, elapsed playing time, repeat type, menu type, etc.**

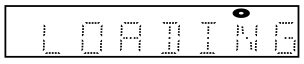
Playback status icon	Mode
	Playback is in progress
	Stop mode
	Pause mode
	Fast forward mode
	Fast reverse mode
	Slow motion mode

Example of Display Message

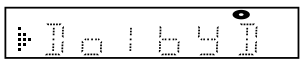


Title is being played back.
Indicating the current title number and the elapsed time.

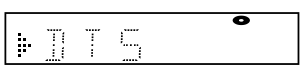
Current chapter is in chapter repeat mode.



Loading a disc.



Dolby Digital audio is being played back.



DTS audio is being played back.

Symbols Used in this Manual

To specify for which media type each function is, we put the following symbols at the beginning of each item to operate.

Symbol	Description
BD VIDEO	Description refers to BD-video and BD-RE (ver.2.1) / BD-R (ver.1.1/1.2/1.3) recorded in BDMV format
DVD VIDEO	Description refers to DVD-video
CD	Description refers to audio CD / DTS-CD
AVCHD	Description refers to DVD-RW/-R and SD card with AVCHD files
DivX®	Description refers to BD-RE/-R, DVD-RW/-R and CD-RW/-R with DivX® files
MP3	Description refers to BD-RE/-R, DVD-RW/-R, CD-RW/-R and SD card with MP3 files
WMA	Description refers to BD-RE/-R, DVD-RW/-R, CD-RW/-R and SD card with Windows Media™ Audio files
JPEG	Description refers to BD-RE/-R, DVD-RW/-R, CD-RW/-R and SD card with JPEG files

If you do not find any of the symbols listed above under the function heading, the operation is applicable to all media.

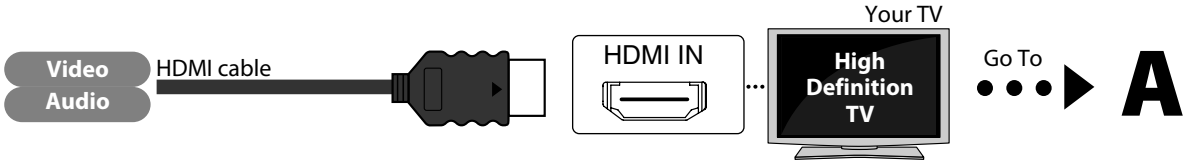
CONNECTIONS

- When you change the connections, all devices should be turned off.
- Refer also to the manual of the devices to be connected.

Connection to the TV

1 **Choose the appropriate connection, then proceed to the corresponding instruction (A, B or C) on the next page.**

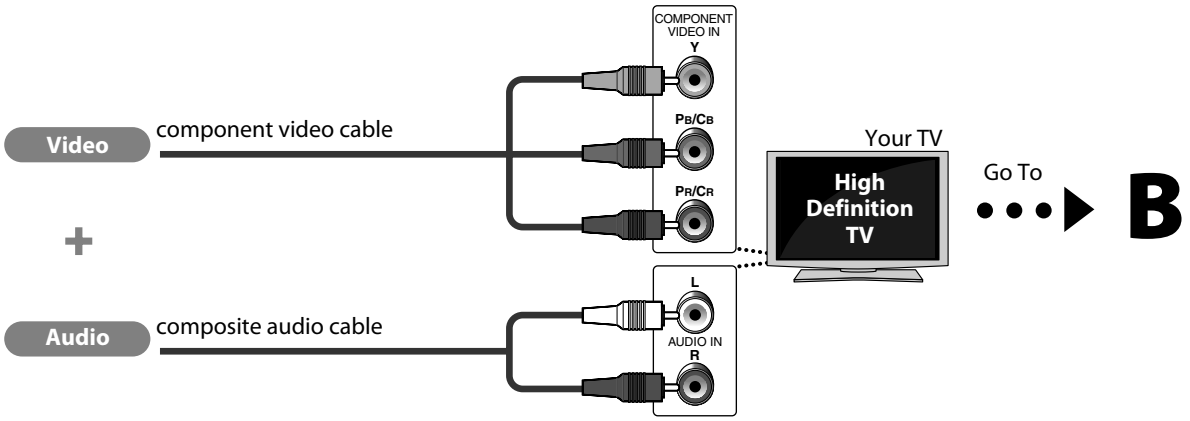
Best (Supports up to 1080i / 1080p, 1080p24 resolution.)



No analogue audio connection required.

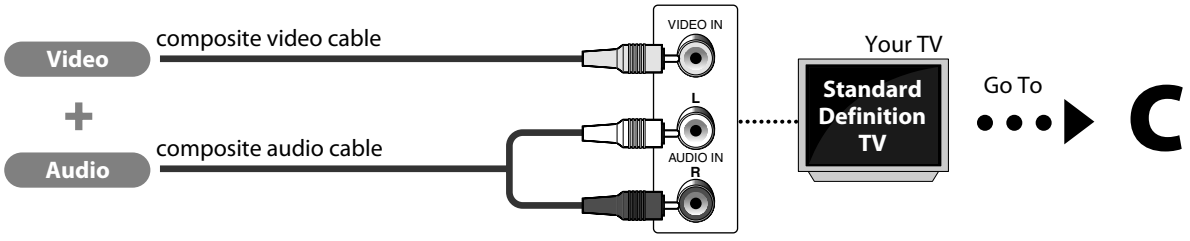
High Speed HDMI Cable (also known as HDMI category 2 cable) included

Better (Supports up to 1080i resolution.)



Component video cable and composite audio cable NOT INCLUDED

Basic (Supports only 480i/576i resolution.)



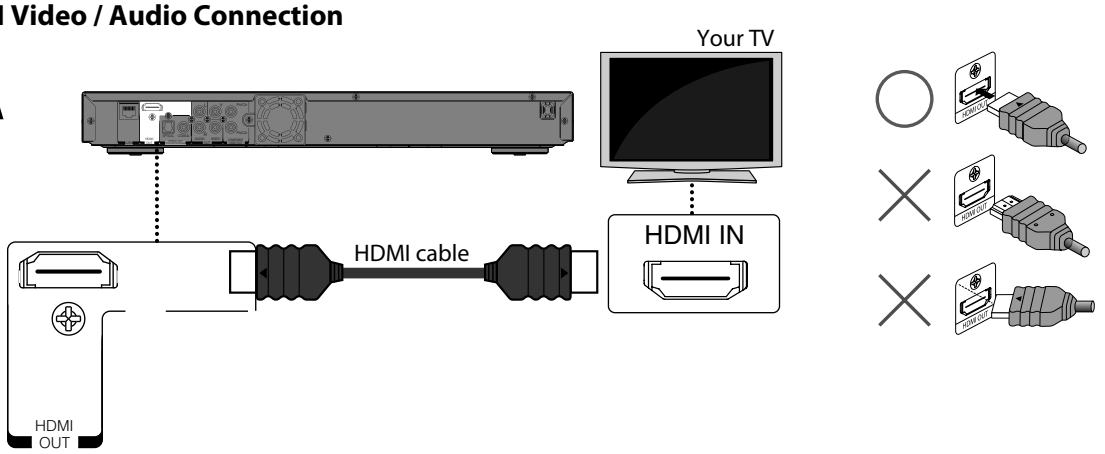
- Connect this unit directly to the TV. If the composite audio / video cables are connected to a VCR, pictures may be distorted due to the copy right protection system.

Composite audio / video cables NOT INCLUDED

2 Connect the cables by following the descriptions below.

HDMI Video / Audio Connection

A

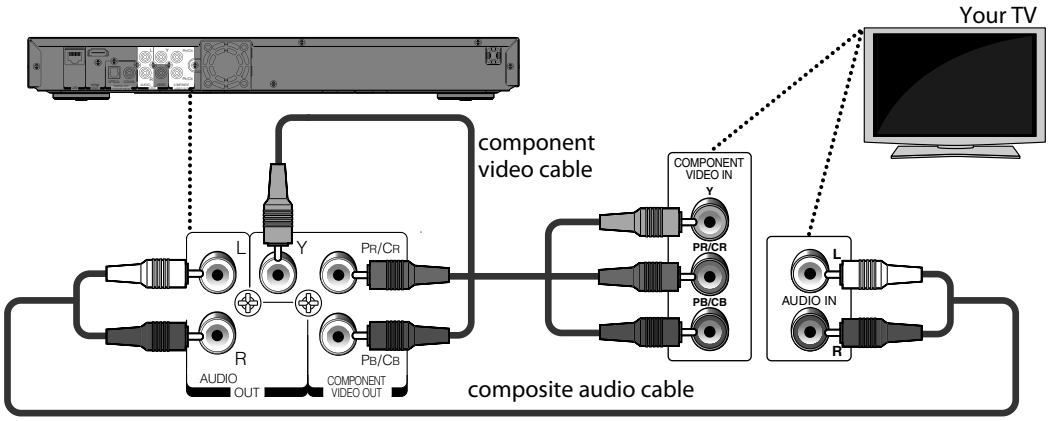


Note

- Do not tilt the connector when inserting it into the HDMI jack, and make sure the shapes of the jack and the connector are matched.
- When using non-HDCP compatible TV, the image may not be displayed properly.

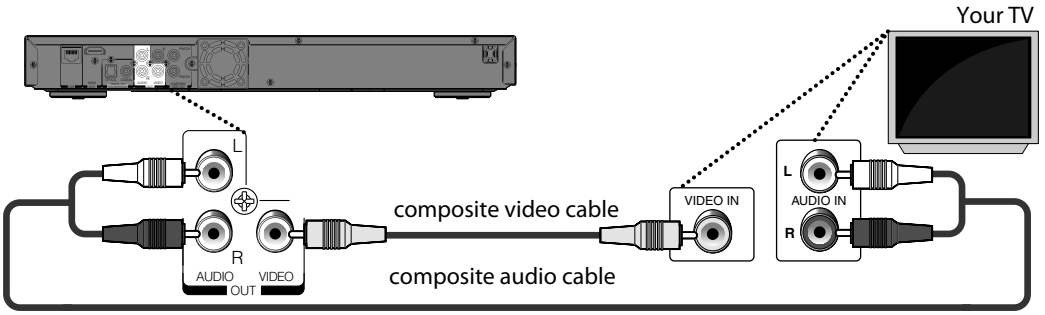
Component Video + Standard Audio Connection

B



Standard Video + Standard Audio Connection

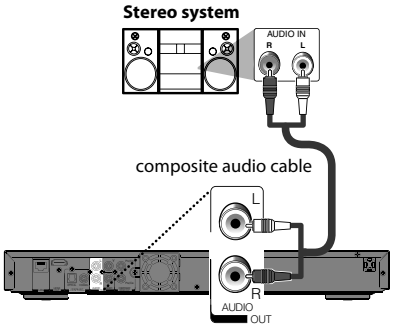
C



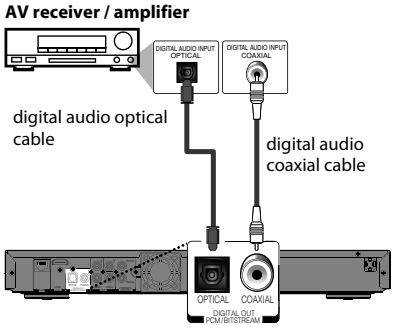
CONNECTIONS

Connection to an Audio System

2-Channel Analogue Audio Connection

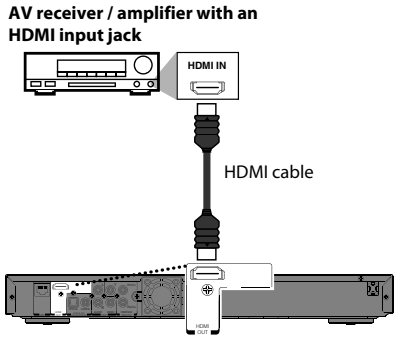


Digital Audio Connection



• Refer to page 34 for digital audio setting.

HDMI Audio Connection



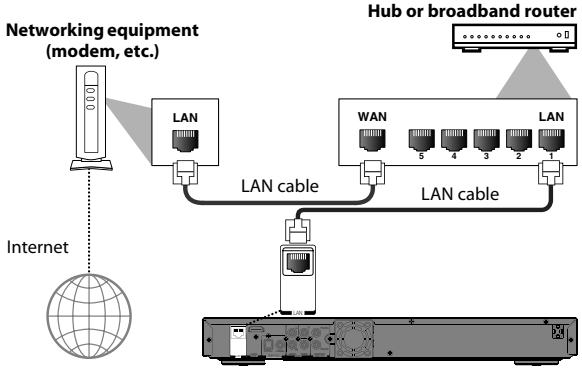
• Refer to page 33 for HDMI audio setting.

Digital audio optical / coaxial cable and composite audio cable NOT INCLUDED

High Speed HDMI Cable (also known as HDMI category 2 cable) included

Network Connection with LAN

• You can use a disc which offers BD-Live function by connecting the unit to the Internet.
(For BD-Live information, please refer to page 23.)



Networking equipment, hub or broadband router and cables NOT INCLUDED

Caution

• Do not insert any cable other than a LAN cable to the LAN terminal to avoid damaging the unit.

Note

• After connecting a LAN cable, set up necessary network settings.
• If your network equipment (modem, etc.) does not have broadband router functions, connect a broadband router.
• If your network equipment (modem, etc.) has broadband router functions but there is no vacant port, use a hub.
• For a broadband router, use a router which supports 10BASE-T/100BASE-TX.
• Do not connect your PC directly to the LAN terminal of this unit.
• For the network setup, refer to "Network Connection" on pages 36-38.

Finding the Video Channel on Your TV

After you have completed all the connections, you must find the correct video channel (external input channel) on your TV.

1 After you have made all the necessary connections, turn on the unit and your TV.

2 Press the button on the TV's remote control that accesses the external input channel repeatedly until you see the opening screen. It may be labelled "⏎ (for TOSHIBA TV)", "SOURCE", "AV" or "INPUT" (refer to your TV's user manual).

Note

• If the TV is connected by an HDMI cable, please allow a few minutes for the opening screen to display.

PLAYBACK

Information on Playback

Before you start playing back a disc, read the following information.

Playable Media

This unit is compatible to play back the following discs / files. To play back a disc / file, make sure that it meets the requirements for region codes and colour systems as described below. You can play back discs that have the following logos.
Other disc types are not guaranteed to play back.

Playable discs	Logos
Blu-ray Disc - BD-video (single / dual layer) - BD-RE ver. 2.1 (single / dual layer) (Recorded in BDMV format) - BD-R ver. 1.1 / 1.2 / 1.3 (single / dual layer) (Recorded in BDMV format) (Unclosed discs may not be played back.)	Blu-ray Disc
DVD-video	DVD VIDEO
DVD-RW	DVD RW
DVD-R	DVD R
CD-DA (audio CD)	COMPACT disc DIGITAL AUDIO
CD-RW	COMPACT disc DIGITAL AUDIO ReWritable / COMPACT disc ReWritable
CD-R	COMPACT disc DIGITAL AUDIO Recordable / COMPACT disc Recordable
Kodak Picture CD	Kodak Picture CD COMPATIBLE
DTS-CD	-

Playable files	Media
AVCHD	DVD-RW/-R, SD Memory Card (including SDHC), miniSD Card, microSD Card
DivX®	BD-RE/-R, DVD-RW/-R, CD-RW/-R
MP3	BD-RE/-R, DVD-RW/-R, CD-RW/-R, SD Memory Card (including SDHC), miniSD Card, microSD Card
Windows Media™ Audio	
JPEG	

- ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video.
- ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play DivX Video-on-Demand (VOD) content. To generate the registration code, locate the DivX VOD section in the device setup menu. Go to vod.divx.com with this code to complete the registration process and learn more about DivX VOD.
- Official DivX® Certified product; Plays all versions of DivX® video (including DivX® 6) with standard playback of DivX® media files.
- Discs containing the DivX® files with the DivX® GMC (Global Motion Compensation) playback feature, which is DivX® supplemental function, cannot be played back on this unit.

It is recommended that files to be played back in this unit are recorded under the following specifications:

DivX®

Official DivX Certified® product

- Playable codec of AVI files : DivX® 3.x, DivX® 4.x, DivX® 5.x, DivX® 6.x
- Maximum size of a video : 720 x 480 @30 fps, 720 x 576 @25 fps
- Sampling frequency of audio : 16 kHz - 48 kHz
- Audio type : MPEG1 audio layer 3 (MP3), MPEG1 audio layer 2, Dolby Digital

MP3/Windows Media™ Audio

- Sampling frequency : 32 kHz, 44.1 kHz or 48 kHz
- Constant bit rate : 112 kbps - 320 kbps (MP3), 48 kbps - 192 kbps (Windows Media™ Audio)

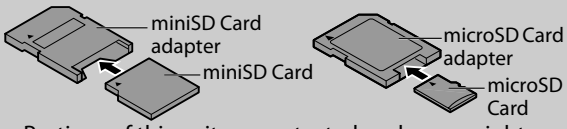
JPEG

- Upper limit : 2,560 x 1,900 dots (sub sampling is 4:4:4), 5,120 x 3,840 dots (sub sampling is up to 4:2:2)
- Lower limit : 32 x 32 dots
- File size of image maximum : 12 MB

Readable cards	Playable files / data
SD Memory Card (8 MB - 2 GB)	AVCHD, MP3, Windows Media™ Audio, JPEG, picture-in-picture commentary, subtitles or other extras for BD-ROM ver. 2 (Profile 2.0 / Profile 1.1)
SDHC Memory Card (4 GB - 8 GB)	
miniSD Card (8 MB - 2 GB)	
microSD Card (8 MB - 2 GB)	

Note for SD cards

- This unit supports SD Memory Card with FAT12/ FAT16 file system, and SDHC Memory Card with FAT32 file system.
- This unit does not support NTFS file system.
- This unit may not read the SD cards formatted on a computer. If that is the case, please reformat the SD cards in this unit and try again.
- This unit does not support miniSDHC and microSDHC Memory Card.
- For miniSD Card and microSD Card, the adapter is necessary.



- Portions of this unit are protected under copyright law and are provided under license by ARIS / SOLANA / 4C.
- Please keep the SD cards in their cases when you are not using them.
- Do not try to open or modify the card.
- Do not touch the terminal surface with your fingers or any metals.
- Do not attach additional labels or stickers to cards.
- Do not remove the label of the SD cards.
- This unit recognises up to 8 characters of file name in the SD card. Characters after 8th will not be displayed.

Unplayable Media

The following discs will not be played back in this unit.

- CD-ROM
- CD-I (compact disc-interactive)
- DVD-RAM
- VSD (video single disc)
- DVD-audio
- Video CD
- HD DVD
- SVCD
- Unfinalised disc
- BD-RE (ver.1.0)
- BD-RE (ver.2.1) (Recorded in BDAV format)
- SD card contains DivX® files.
- BD / DVD hybrid disc (played back as a BD-video only)
- BD that contains AVCHD files
- BD-R (ver.1.1 / 1.2 / 1.3) (Recorded in BDAV format)
- DVD-RW/-R recorded in non compatible recording format.
- Super Audio CD - Only the sound on the CD layer can be heard. The sound on the high-density Super Audio CD layer cannot be heard.
- Playability of dual discs are not guaranteed.
- This unit cannot play back the disc contents protected by Windows Media™ Digital Rights Management (DRM).

Colour Systems

BD and DVD are recorded in different colour systems throughout the world. The most common colour system, used primarily in the U.K. and other EU countries, is PAL. This unit uses the PAL system. However, it is also possible to play back BD and DVD using other colour systems, such as NTSC.

Region Codes

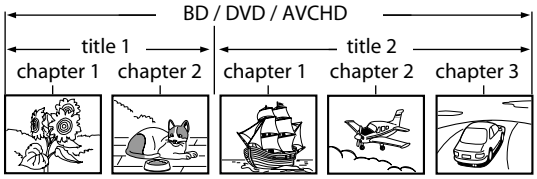
This unit has been designed to play back BD-video with region "B" and DVD-video with region "2" or "ALL". You cannot play back BD-video or DVD-video that are labelled for other regions. Look for the symbols on the right on your BD-video or DVD-video. If these region symbols do not appear on your BD-video or DVD-video, you cannot play back the disc in this unit. The letter or number inside the globe refers to region of the world. A BD-video or DVD-video labelled for a specific region can only play back on the unit with the same region code.

BD-video

DVD-video

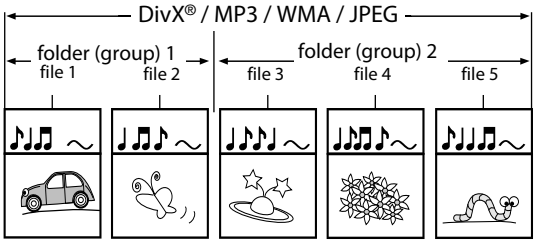
Structure of Media Contents

The contents of BD / DVD / AVCHD are generally divided into titles. Titles may be further subdivided into chapters.



Audio CD is divided into tracks.

Data discs or SD cards containing DivX® / MP3 / WMA / JPEG are divided into folders, and the folders are subdivided into files.



On-Screen Display

You can check information about the current disc by pressing **[DISPLAY]**.

To call the on-screen display menu, press **[DISPLAY]** during playback. Every time you press **[DISPLAY]**, the information changes. Depending on the media, available information varies.

BD VIDEO AVCHD

OFF ➡ Title / Chapter information
➡ Title information (elapsed time)
➡ Title information (remaining time)
➡ Decoding format information ➡ OFF

DVD VIDEO

OFF ➡ Chapter information (elapsed time)
➡ Chapter information (remaining time)
➡ Title information (elapsed time)
➡ Title information (remaining time)
➡ Decoding format information ➡ OFF

CD

OFF (Track information(elapsed time))
➡ Track information (remaining time)
➡ Disc information* (elapsed time)
➡ Disc information* (remaining time)
➡ OFF (Track information(elapsed time))
(* not available during programme / random playback)

DivX®

OFF ➡ File information (elapsed time)
➡ File information (remaining time)
➡ File name information ➡ OFF

MP3

OFF (File information (elapsed time))
➡ File name information
➡ OFF (File information (elapsed time))

WMA

OFF (File information (elapsed time))
➡ File name information
➡ Tag information (title name)
➡ Tag information (artist name)
➡ OFF (File information (elapsed time))

JPEG

OFF ➡ File information ➡ File name information ➡ OFF

<Title / Chapter information (BD / AVCHD)>

<Chapter information (DVD)>

1. **Current title number**
2. **Current chapter number / Total number of chapters**
3. **Current repeat setting (Only when repeat setting is active)**
   (C: Chapter repeat, T: Title repeat, AB: A-B repeat)
4. **Indicates that the multi camera angle images are available on the scene**
5. **Current playback status**
6. **Elapsed time (or Remaining time) of the current chapter**

<Title information (BD / DVD / AVCHD)>

1. **Current title number / Total number of titles**
2. **Elapsed time (or Remaining time) of the current title**

<Track (File) information (CD / DivX® / MP3 / WMA / JPEG)>

1. **Current track (file) number / Total number of track (file)**
2. **Elapsed time (or Remaining time) of the current track / file (except for JPEG files)**
3. **Indication of SD card playback**
4. **Current repeat setting**
   (Only when repeat setting is active)
   (T: Track repeat, G: Group repeat,
   A: All repeat, AB: A-B repeat)

<Disc information (CD)>

1. **Current track number / Total number of tracks**
2. **Elapsed time (or Remaining time) of the current disc**

<File name information (MP3 / WMA)>

1. **Media icon and file name**

: DivX® files

: MP3 files

: WMA files

: JPEG files

<Tag information (WMA)>

Title name information

Artist name information

1. **Title name based on tag information of current Windows Media™ Audio file**
2. **Artist name based on tag information of current Windows Media™ Audio file**

<Decoding format information>

1. **Decoding format**

PLAYBACK

Preparing to Play Back

How to Insert a Disc

1 Press [OPEN/CLOSE ⏏] to open the disc tray.

2 Place the disc on the disc tray with its label side facing up.

Align the disc to the disc tray guide.

- Make sure the disc is compatible with this unit. (Refer to page 13 for the list of compatible discs.)

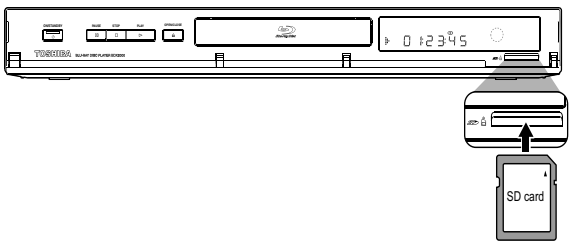
3 Press [OPEN/CLOSE ⏏] to close the disc tray.

Please allow time for the disc to load.

To eject the disc:
Press **[OPEN/CLOSE ⏏]**.

How to Insert an SD Card

1 Gently push in the SD card, with its label side facing up, into the SD card slot until it clicks.



To remove the SD card:
In stop mode, gently push in the SD card, then pull it out slowly.

Selecting the Media

When an SD card is inserted, the correct media should be selected in advance. You can switch the media by following the steps below. **"Media Select" is available only when an SD card is inserted.**

1 In stop mode, press [SETUP].

2 Use [▲ / ▼] to select 🔧, then press [ENTER] .

3 Use [▲ / ▼] to select "Media Select".

4 Press [ENTER] repeatedly to select the desired media.

5 Press [SETUP] to exit.

Even if you turn the unit to the standby mode in "SD Card" mode, it will be in "Disc" mode the next time you turn it on.

Basic playback

Playing Back (BD, DVD or a Disc with AVCHD files)

BD VIDEO DVD VIDEO AVCHD

1 Insert a disc.

2 Playback may start automatically.

If not, press **[PLAY ▶]**.

- Some discs may show a title or a disc menu. In such case, refer to "Using the Title / Disc / Pop-up Menu" on page 17.

To pause playback:
Press **[PAUSE ❚❚]**.

To return to the normal playback:
Press **[PLAY ▶]**.

To stop playback:
Press **[STOP ■]**.
Playback will be in Resume-On-Stop mode.

Resume-On-Stop mode

If a playback is in Resume-On-Stop mode, when you press **[PLAY ▶]** next time, the playback will start from the point where it has been stopped.

Note

- Resume playback may not be available for the BD that supports Java applications (BD-Java).
- In "Disc" mode, the resume information will be cleared when;
  - **[STOP ■]** is pressed while in the Resume-On-Stop mode.
  - the parental level is changed.
  - the disc tray is opened.
- In "SD Card" mode, the resume information will be cleared when;
  - **[STOP ■]** is pressed while in the Resume-On-Stop mode.
  - the SD card is removed.
  - the unit is turned into the standby mode.

Note

- ⃠ may appear at the top-right on the TV screen when the operation is prohibited by the disc or this unit.
- During the playback of 2-layered disc, pictures may stop for a moment. This happens when the 1st layer switches to the 2nd layer. This is not a malfunction.
- The operation may vary when you play back BD-video and DVD-video with disc menu. Refer to the manual accompanying the disc for details.
- Set "Still Mode" setting to "Field" in "Video" menu if pictures in the pause mode are blurred. Refer to "Still Mode" on page 28.

Using the Title / Disc / Pop-up Menu

BD VIDEO DVD VIDEO AVCHD

Many of BD-video and DVD-video discs contain title menu (BD-video / DVD-video / AVCHD), disc menu (DVD-video) or pop-up menu (BD-video) which guides you through the available functions in the disc. The contents of the menus may differ depending on the discs.

Title menu (BD-video / DVD-video / AVCHD)

1. **Press [TOP MENU].**
2. **Use [▲ / ▼ / ◄ / ►] to select an item, then press [ENTER].**
3. **Press [TOP MENU] to exit.**

Disc menu (DVD-video)

1. **Press [POP MENU / MENU].**
2. **Use [▲ / ▼ / ◄ / ►] to select an item, then press [ENTER].**
3. **Press [POP MENU / MENU] to exit.**

Pop-up menu (BD-video)

- This is a special feature available for some BD-videos. When you press **[POP MENU / MENU]**, a menu pops out on the TV screen during the playback.

1. **During the playback of BD-video, press [POP MENU / MENU].**
2. **Use [▲ / ▼ / ◄ / ►] to select an item, then press [ENTER].**
3. **Press [POP MENU / MENU] to exit.**

Note

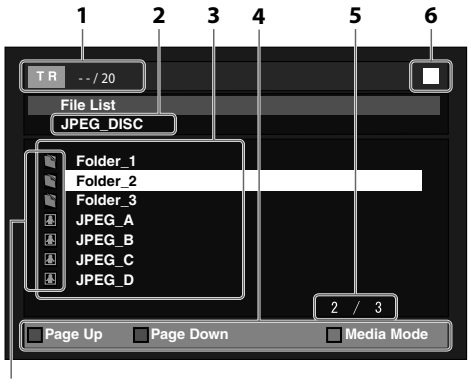
- Contents of menus and corresponding menu operations may vary among discs. Refer to the manual accompanying the disc for details.
- Title menu is also available for SD card with AVCHD files.

Playing Back (Audio CD or a Media with DivX®/ MP3/Windows Media™ Audio/JPEG Files)

CD DivX MP3 WMA JPEG

1. **Insert an audio CD or a media with DivX® (not available for SD card), MP3, WMA or JPEG files.**
   - Media filter screen will appear.
   - For audio CD and a disc contains only one type of file, skip to step 3.
2. **Select the type of the file you want to play back in the media filter screen. Then press [ENTER] to display the file list.**
3. **Use [▲ / ▼] to select a desired track, folder or file, then press [ENTER]. Use [◄ / ►] to go in and out of folders. (only for DivX® / MP3 / WMA / JPEG files).**
   - If you press **[ENTER]** on the desired track / file, playback will start.

e.g.) JPEG



1. **Audio CD**
   Track information
   DivX® / MP3 / WMA / JPEG
   File information
2. **Audio CD**
   "CD-DA" will be displayed
   DivX® / MP3 / WMA / JPEG
   Current Disc, SD card, or folder name will be displayed
3. **Audio CD**
   List of the track number and time
   DivX® / MP3 / WMA / JPEG
   List of the folder or file names in the current disc or folder
4. **Operation guide**
   Press **[Red]** to go to the previous page
   Press **[Green]** to go to the next page
   Press **[Yellow]** to call up the subtitle list
   Press **[Blue]** to select "Media Mode"
5. **Current page / Total page number**
6. **Playback status**
7. **Media icon**

: Folder		: audio CD tracks	
: DivX® files		: MP3 files	
: WMA files		: JPEG files	

To stop playback:
Press **[STOP ■]**.

Note

- Unrecognisable characters will be replaced with asterisks.
- Some unplayable folders or files may be listed due to the recording status.
- High-resolution JPEG files take longer to be displayed.
- Progressive JPEG files (JPEG files saved in progressive format) cannot be played back in this unit.
- The system can recognise up to 255 folders / 999 files for CD, 999 folders / 9,999 files for BD, DVD and SD card.
- The 9th and deeper hierarchies cannot be displayed for CD. The 10th and deeper hierarchies cannot be displayed for DVD and SD card.
- For the SD card playback, refer to "Reading an SD Card" on page 18.
- Extensions other than listed below cannot be recognised.
  - DivX®: .avi / .AVI / .divx / .DivX
  - MP3 : .mp3
  - WMA : .wma
  - JPEG : . jpg / jpeg*

  * The extension ".jpeg" is not available for SD card.
- If a disc contains AVCHD files, the playback of other files which are in the same disc is not available.
- With regard to the multi-border BD-RE/-R, additionally recorded sections cannot be recognised.
- With regard to the multi-border DVD-RW/-R, additionally recorded sections may not be recognised.

Reading an SD Card

AVCHD MP3 WMA JPEG

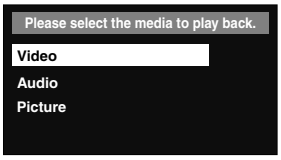
With SD card, you can enjoy the following functions in addition to playing back AVCHD / MP3 / WMA / JPEG files stored in the card.

- Special additional contents for BD-ROM Profile 1 ver.1.1. (For more information about the special additional contents, refer to the instruction book that came with the disc.)
- BD-Live function (BD-ROM ver. 2 Profile 2.0). (For more information about BD-Live, refer to page 23.)

1 Insert an SD card (refer to page 16 on how to insert a disc).
If no disc is in operation, "Media Select" screen will appear on the TV screen.

2 Use [▲ / ▼] to select "SD Card", then press [ENTER].
- When the SD card contains only one type of file, skip to step 4.

3 Select the type of the file you want to play back. Then press [ENTER] to display the file list.



- For AVCHD files, the playback will start right after you select "Video". (The file list is not available for AVCHD files.)

4 Use [▲ / ▼] to select a desired folder or file, then press [ENTER]. Use [◄ / ►] to go in and out of folders.
- If you press **[ENTER]** on the desired file, playback will start.

Caution

- Do not remove the SD card or turn the unit to the standby mode while the contents of the card are in playback. It may result in malfunction or loss of the card's data.

Note

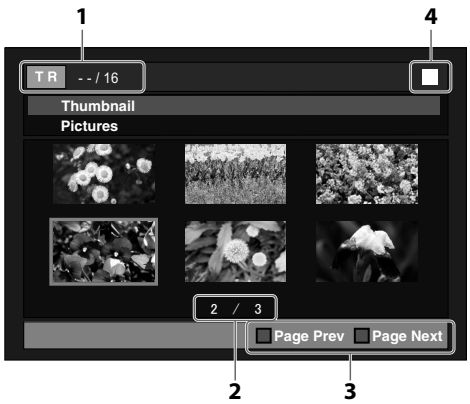
- "Media Select" screen will disappear under the conditions listed below:
  - when the screen saver is activated.
  - when **[RETURN]** is pressed.
  - when the setup menu is called up.
- If "Media Select" screen disappears before you make the selection, refer to "Selecting the Media" on page 16.
- Do not delete the folders or files in the SD card with your computer. This unit may not read the SD cards formatted on a computer.
- If a folder or file name includes one of the following unrecognisable characters, the folder or file name may not be displayed correctly.
  - Unrecognisable characters : . , " = + [ ] ; / \ : | ¥

Kodak Picture CD

JPEG

This unit can also run JPEG files stored on Kodak Picture CD. You can enjoy picture images on the TV set by playing back the Kodak Picture CD. This unit conforms to ver.7.0 of Kodak Picture CD. For details of Kodak Picture CD, contact a shop that provides developing service of Kodak Inc.

1 Insert a Kodak Picture CD. Kodak Picture CD menu will appear automatically on the TV screen.



1. **File information**
2. **Current page / Total page number**
3. **Operation guide**
   Press **[Yellow]** to go to the previous page
   Press **[Blue]** to go to the next page
4. **Playback status**

2 Use [▲ / ▼ / ◄ / ►] to select a desired file to be played back, then press [PLAY ►] or [ENTER].

- An image will be played back from the selected file and go to the next one in turn.

To stop playback:
Press **[STOP ■]**.

To return to the first item:
Press **[TOP MENU]**.

To return to the file played back last:
Press **[POP MENU / MENU]**.

Tips for JPEG / Kodak Picture CD Playback

- Every press on **[ANGLE]** will turn the image clockwise by 90 degrees when an image is displayed.
- To change the visual effect for switching the playback image, press **[MODE]** once, then use **[◄ / ►]** or **[ENTER]** to switch between "Cut In/Out" and "Fade In/Out".
- During JPEG / Kodak Picture CD playback, press **[MODE]** twice to change the size of the playback image, then use **[◄ / ►]** or **[ENTER]** to switch between "Normal" (100 %) and "Small" (95 %). The size change may have no effect on some files (e.g. files with a small picture size).

Special Playback

About DivX® and DivX® VOD

DivX

Hint for the purchased or rented official DivX® Certified product

- When you purchase or rent a DivX® file through the official site of DivX® video which is called DivX® Video On-Demand (VOD) services, a registration code is required every time you get the new file from the DivX® VOD services. Refer to "DivX® VOD" in "FUNCTION SETUP" on page 30.

Possible Errors

"This rental has ○ views left. Do you want to use one of your ○ views now?"
Some DivX® VOD files are restricted with the limited playable times. You cannot play them back beyond the limit.
"This player is not authorized to play this video."
You cannot play back the DivX® VOD files obtained with different registration codes on this unit.
"This rental is expired."
You cannot play back the DivX® VOD files with the expired rental period.
"This player does not support this video format."
You cannot play back the DivX® files whose image size exceeds 720 x 576.
"This player does not support this audio format."
For DivX® files with audio format other than MPEG1 audio layer 3 (MP3), MPEG1 audio layer 2 and Dolby Digital, audio will not be output and only the video will be output.
"This player does not support this video frame rate."
You cannot play back the DivX® files whose frame rate exceeds 30 fps.

Note

- A file with an extension of ".avi" and ".DivX" is called as a DivX® file. All files with ".avi" extension are recognised as MPEG4.
- For CD-RW/-R, maximum of 255 group (folder) or 999 files may be recognised.
- For BD-RE/-R and DVD-RW/-R, maximum of 999 group (folder) or 9,999 files may be recognised.
- The 10th and deeper hierarchies cannot be displayed.
- Unrecognisable characters will be replaced with "*".
- When playing back the files recorded in high bit rates, the images can be interrupted in some occasions.
- Although DivX® logo has been obtained for this unit, it may not be able to play back some data, depending on the characteristics, bit rates, or audio format settings, etc.
- If a large-sized DivX® file is selected, please allow time for the file to start the playback (over 20 seconds sometimes).
- If DivX® files written on a CD-RW/-R cannot be played back, rewrite them on a BD-RE/-R or DVD-RW/-R, and try playing it back again.
- For more information for DivX®, please visit http://www.divx.com.

Playing Back a DivX® with DivX® External Subtitle

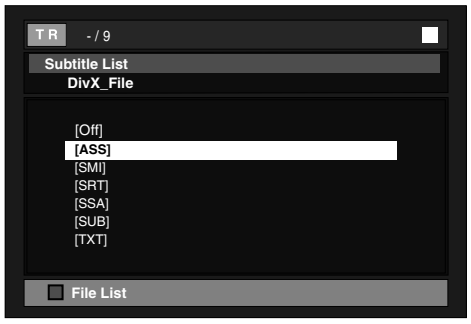
DivX

Subtitles created by the user can be displayed during DivX® playback.

1 Follow steps 1 to 3 in "Playing Back (Audio CD or a Media with DivX®/MP3/Windows Media™ Audio/JPEG Files)" on page 17.

2 Select a file you want to play back, then press [Yellow].

Subtitle list will appear.



- "DivX Subtitle" appears next to "Yellow" icon only when DivX® subtitle is available for the selected file.
- If you press **[PLAY ►]** or **[ENTER]** instead of **[Yellow]**, playback without subtitle will start.

3 Select the desired subtitle file, then press [PLAY ►] or [ENTER].

Playback of the DivX® file with DivX® subtitle will start.

Note

- To utilise this function, the following conditions must meet.
  - Playback file and the subtitle file must have the same name.
  - Playback file and the subtitle file must locate in the same folder.
  - Only the subtitle files with the following extensions are supported; .smi (.SMI), .srt (.SRT), .sub (.SUB), .ass (.ASS), .ssa (.SSA), .txt (.TXT). (.sub (.SUB) and .txt (.TXT) may not be recognised.)
  - The subtitles that exceeds the playback time of the DivX® file will not be displayed.

Fast Forward / Fast Reverse

BD VIDEO DVD VIDEO CD AVCHD DivX MP3 WMA

1 During playback, press [FWD ▶▶] repeatedly for fast forward.
During playback, press [REV ◀◀] repeatedly for fast reverse.
Every time you press [FWD ▶▶] or [REV ◀◀], the playback speed will change.

2 Press [PLAY ▶] to return to normal playback.

Note

- For BD, DVD and AVCHD, speed changes in 5 different levels.
- For audio CD, DivX®, MP3 and Windows Media™ Audio, speed changes in 3 different levels.
- For audio CD, fast forward / fast reverse search between different tracks are not available during programme and random playback.
- For DivX®, MP3 and Windows Media™ Audio, fast forward / fast reverse search between different files are not available.
- For some DivX® files, fast forward/fast reverse may not function.

Slow Motion Playback

BD VIDEO DVD VIDEO AVCHD DivX

1 During playback, press [PAUSE ❚❚], then press [FWD ▶▶].
Every time you press [FWD ▶▶], playback speed will change.

2 Press [PLAY ▶] to return to normal playback.

Note

- Slow motion speed changes in 3 different levels.
- Only slow forward is available.
- Set "Still Mode" setting to "Field" in "Video" menu if pictures in the slow motion playback mode are blurred. Refer to "Still Mode" on page 28.
- For some DivX® files, slow forward may not function.

Step by Step Playback

BD VIDEO DVD VIDEO AVCHD DivX

1 In pause mode, press [PAUSE ❚❚] repeatedly.
Every time you press [PAUSE ❚❚], playback will advance one step at a time.

2 Press [PLAY ▶] to return to normal playback.

Note

- Only step by step forward is available.
- Set "Still Mode" setting to "Field" in "Video" menu if pictures in step by step playback mode are blurred. Refer to "Still Mode" on page 28.

Repeat Playback

Available repeat functions vary depending the discs.

1 During playback, press [REPEAT] repeatedly to select the desired repeat mode.

Repeat mode	Available media
Chapter repeat The current chapter will be played back repeatedly.	BD VIDEO DVD VIDEO AVCHD
Title repeat The current title will be played back repeatedly.	BD VIDEO DVD VIDEO AVCHD
Track repeat The current track will be played back repeatedly.	CD DivX MP3 WMA
Group repeat The current folder will be played back repeatedly.	DivX MP3 WMA JPEG
All repeat All tracks or files in the media will be played back repeatedly.	CD DivX MP3 WMA JPEG

Note

- The repeat setting will be cancelled when you stop playback.
- The chapter, title, track or group repeat will be cleared when moving to another chapter, title, track / file or folder.
- Repeat playback does not function during A-B repeat playback.
- Chapter and title repeat are not available with some scenes.
- When the repeat setting is set for a MP3 or WMA folder (file), the repeat setting will be cancelled if you select other MP3 or WMA folder (file) to play back.

A-B Repeat

BD VIDEO DVD VIDEO CD AVCHD DivX

You can play back the specific part (between point A and point B) repeatedly.

1 **During playback, press [A-B] at the desired starting point A.**

2 **During playback, press [A-B] at the desired ending point B.**

As soon as you set the point B, the part between point A and point B will start playback repeatedly.

- To cancel the A-B repeat, press **[A-B]** again.

Note

- Point B should be set within the same title or track as point A.
- A-B repeat is not available with some scenes.
- To cancel the A point which was set, press **[CLEAR]**.
- A-B repeat does not function during repeat playback.
- For some DivX® files, A-B repeat playback may not function.

Programme Playback

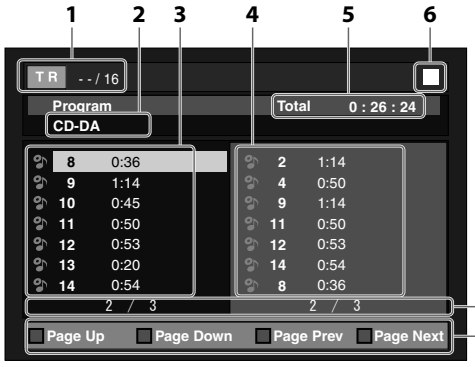
CD MP3 WMA JPEG

You can play back the disc/card in your desired order.

1 **In stop mode, press [MODE].**

2 **Use [▲ / ▼] to select a track / folder / file, then press [ENTER].**

e.g.) audio CD



1. **Audio CD**
   Track information
   DivX® / MP3 / WMA / JPEG
   File information
2. **Audio CD**
   "CD-DA" will be displayed
   DivX® / MP3 / WMA / JPEG
   Current disc, SD card, or folder name will be displayed
3. **Track / Folder / File list**
   Track / Folder / File list in the original order
4. **Programmed list**
   Track / File list in the programmed order
5. **Cumulative playback time of all tracks in the programmed list (audio CD only)**
6. **Playback status**
7. **Current page / Total page number**
8. **Operation guide**
   Press **[Red]** to go to the previous page in the track / folder / file list
   Press **[Green]** to go to the next page in the track / folder / file list
   Press **[Yellow]** to go to the previous page in the programmed list
   Press **[Blue]** to go to the next page in the programmed list

   - For DivX®, MP3, WMA or JPEG files, use **[▲ / ▼]** to select a folder, then press **[ENTER]** first, and then use **[▲ / ▼]** to select a file, then press **[ENTER]**.
   - Press **[CLEAR]** to erase the last file of the programme.
   - Use **[▲ / ▼]** to select "All Clear" at the bottom of the list to erase all the tracks / files in the programme.
   - Use **[◄ / ►]** to go back / forward between the hierarchy of folders.

3 **Press [PLAY ►] to start programme playback.**

- The programme playback will start.

To exit from the programme playback mode:

- Press **[RETURN]** in stop mode.

Note

- During programme playback, press **[STOP ■]** once to set the resume point, and then press **[PLAY ►]** to resume programme playback from where **[STOP ■]** was pressed (audio CD) or from beginning of the file where **[STOP ■]** was pressed (MP3 / WMA / JPEG).
- During programme playback, press **[STOP ■]** twice to display the programme screen. To go back to the normal programme playback, press **[RETURN]** to exit from the programme screen, then press **[PLAY ►]**.
- Up to 99 tracks / files can be entered.
- To repeat the current track / file in the programme, press **[REPEAT]** repeatedly until "Track" appears during playback. To repeat the entire programme, press **[REPEAT]** repeatedly until "All" appears during playback.
- Playback from a desired track / file and random playback are not available during programme playback.
- Press **[MODE]** to switch to the random playback mode.
- The programme will be cleared when;
  - the unit is turned into the standby mode.
  - the media is switched.
  - the disc / card is removed (as for "Disc" mode, just opening the disc tray will clear the programme info).

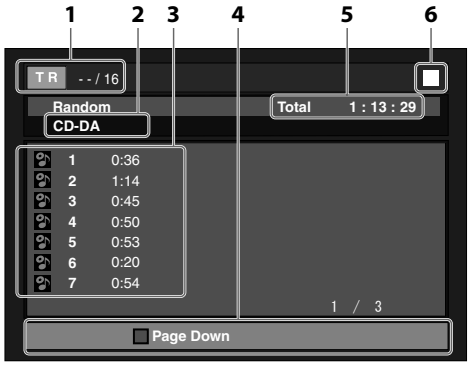
Random Playback

CD MP3 WMA JPEG

This function shuffles the playback order of tracks / files.

1 **In stop mode, press [MODE] twice.**

e.g.) audio CD



1. **Audio CD**
   Track information
   MP3 / WMA / JPEG
   File information
2. **Audio CD**
   "CD-DA" will be displayed
   MP3 / WMA / JPEG
   Current disc, SD card, or folder name will be displayed
3. **Track / File list**
   Track / File list in the original order will be displayed
4. **Operation guide**
   Press **[Red]** to go to the previous page in the track / file list
   Press **[Green]** to go to the next page in the track / file list
5. **Total playback time of all tracks (audio CD only)**
6. **Playback status**

2 **Press [PLAY ►] to start random playback.**

To exit from the random playback mode:

- Press **[MODE]** in stop mode.

Note

- During the random playback, press **[STOP ■]** once to set the resume point, and then press **[PLAY ►]** to resume random playback from where **[STOP ■]** was pressed (audio CD) or from beginning of the file where **[STOP ■]** was pressed (MP3 / WMA / JPEG).
- To repeat the current track / file in the random selection, press **[REPEAT]** repeatedly until "Track" appears during playback. To repeat the entire random selection press **[REPEAT]** repeatedly until "All" appears during playback.
- Playback from a desired track / file is not available during random playback.
- In stop mode, press **[RETURN]** to switch to the programme playback mode.
- For a disc containing mixed MP3 and Windows Media™ Audio files, random playback of those files will be performed.

Rapid Playback

BD VIDEO DVD VIDEO AVCHD

This function plays back approximately at 1.3 times the normal playback while keeping the sound output. This function is available only on discs recorded in the Dolby Digital format.

1 **During playback, press [MODE] repeatedly until appears.**

2 **Press [ENTER] or [◄ / ►] to change the setting.**

"Off" : Plays back in normal speed.

"♪♪" : Plays back approximately at 1.3 times of normal playback.

3 **Press [PLAY ►] to return to normal playback.**

Note

- Picture adjustment and audio language setting cannot be changed during this function.
- Virtual surround does not work during this function.
- This function may not work at some points on a disc.
- During this function, 2ch LPCM will be output from HDMI OUT jack and DIGITAL OUT jack.

Useful Function

Noise Reduction

DVD VIDEO DivX

Reduces the noise of the playback picture.

1 **During playback, press [MODE] repeatedly until appears.**

2 **Use [◄ / ►] to change the setting.**

"Off" : Shows the original picture as recorded.

"1" : Executes 3D noise reduction which detects and deletes the noise by comparing each picture frames.

"2" : Executes MPEG noise reduction which reduces the block noise and mosquito noise on the subtitles on the movie.

"3" : Executes both MPEG noise reduction and 3D noise reduction.

3 **Press [RETURN] to exit.**

Note

- The setting will remain the same even if the unit is turned to the standby mode.
- You cannot adjust the setting during rapid playback.

Virtual Surround

BD VIDEO DVD VIDEO CD AVCHD DivX MP3 WMA

You can enjoy stereophonic virtual space through your existing 2-channel stereo system.

1 During playback, press [MODE] repeatedly until appears.

2 Use [▲ / ▼] to change the setting.

"Off" : No surround effect
"1" : Natural surround effect
"2" : Stronger surround effect

3 Press [RETURN] to exit.

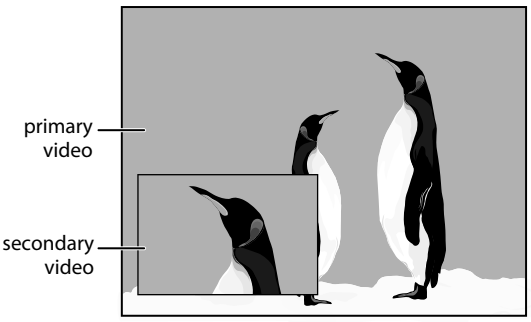
Note

- Set the virtual surround setting to "Off" or lower the volume if the sound is distorted.
- Virtual surround does not function during rapid playback.
- For virtual surround, audio signal will always be 2-channel LPCM.

PIP (BONUSVIEW) Setting

BD VIDEO

Some BD-videos have the PIP function which enables you to display the secondary video in the primary video. You can call up the secondary video by pressing **[PIP]** whenever the scene contains the secondary video.



1 During playback, press [PIP].

2 Use [▲ / ▼] to select the secondary video you want.

3 Press [RETURN] or [PIP] to remove the PIP information.

Note

- The secondary audio will not be output when the secondary audio is set to "Off" or when "BD Audio Mode" is set to "HD Audio Output". Refer to "Switching Audio Soundtrack" on page 25 and "Setting the BD Audio Mode" on page 26.

Camera Angle

BD VIDEO DVD VIDEO

Some BD-videos and DVD-videos contain scenes which have been shot simultaneously from various angles. You can change the camera angle when appears on the TV screen.

1 During playback, press [ANGLE].

2 Use [▲ / ▼] to select your desired angle.

3 Press [RETURN] to exit.

Note

- If "Angle Icon" setting is "Off" in "Others" menu, will not appear. Refer to page 30.

Enjoying BD-Live Discs with Online Content

BD VIDEO

You can enjoy the BD-Live functions which enable you to use the interactive functions when the unit is connected to the Internet. (For the Network connection, refer to page 36.)

Examples for BD-Live interactive functions:

- Download the additional contents such as the movie's trailer, subtitles and BD-Java, etc.
- While downloading, special video data may be played back.

Service and functions differ depending on the disc. Follow the instructions given by the disc when using the BD-Live function.

Note

- You must connect the unit to the Internet and set up necessary settings in order to use the BD-Live function.
- For certain discs, setting for "BD-Live Setting" may need to be changed.
- Depending on your connection environment, it may take time to connect to the Internet or the Internet may not be connected.
- When BD-Live functions are used and the unit is connected to the Internet, you may be charged for this communication.
- While connecting to BD-Live, sometimes it can take awhile before the next page is downloaded or refreshed.
- You must insert an SD card when using the BD-Live function. (SD card of 1GB is recommended.)
- Do not remove the SD card when using the BD-Live function.

Note for AACS Online

- The player or disc IDs may be sent to the content provider when playing back a disc with BD-Live function.
- If you save your viewing history on the server by using these IDs, you will be introduced to other similar movies.
- You can save game score histories.

Search

Using [SKIP |◀◀ / ▶▶|]

1 **During playback, press [SKIP ▶▶|] to move to the next track / title / chapter / file. Press it repeatedly to skip to subsequent tracks. Press [SKIP |◀◀] once to go back to the beginning of the current track. Press it repeatedly to go to the previous tracks.**

- For JPEG files, press **[SKIP |◀◀]** to go back to the previous file.

Note

- If title contains no chapters, **[SKIP |◀◀ / ▶▶|]** changes the title.
- For JPEG files, **[◀ / ▶]** is also available.

Using [SEARCH]

By using **[SEARCH]**, you can select the following search modes.

Search mode	Available media
/ **Chapter / Title search**	BD VIDEO, DVD VIDEO, AVCHD
Track search	CD, DivX, MP3, WMA, JPEG
Time search	BD VIDEO, DVD VIDEO, CD, AVCHD, DivX

1 **During playback, press [SEARCH] repeatedly until your desired search mode appears.**

2 **Enter the desired chapter, title, track, file number or time to search for using [Number buttons].**

- Chapter, title, track or time search will start.
- Press **[CLEAR]** to erase an incorrect input.

Note

- During programme and random playback, search functions are not available except the search using **[SKIP |◀◀ / ▶▶|]**.
- Time search is available only in the same track, file or title.
- For BD and AVCHD, chapter and time search are available only during playback.
- For some DivX® files, time search may not function.

Using [Number buttons] (Direct Search)

Title Search

In stop mode, enter the title number you want to search using [Number buttons].
Playback of the title will start in a few seconds.

Chapter Search

During playback of a title, enter the chapter number you want to search using [Number buttons].
Playback of the chapter will start in a few seconds.

Track / File Search

Enter the track / file number you want to search using [Number buttons].
Playback of the track / file will start in a few seconds.

Note

- As for the BD-video, how it performs will be strongly determined by the disc, and may not perform as described here.

PLAYBACK

You can select the format of audio and video as you prefer depending on the contents of the disc you are playing back.

Switching Subtitles

Some BD, DVD and AVCHD materials may have subtitles in 1 or more languages. For commercially available discs, the supported languages can be found on the disc case. Follow the steps below to switch the subtitle languages during playback.

BD VIDEO

1 **During playback, press [SUBTITLE].**

2 **Use [▲ / ▼] to select the desired item to set, then press [ENTER].**

"Primary Subtitle" : Sets the subtitle for the primary video.
"Secondary Subtitle" : Sets the subtitle for the secondary video.
"Subtitle Style" : Sets style of the subtitle.

3 **Use [▲ / ▼] to select your desired subtitle or style.**

- Use [◄ / ►] to switch between current subtitle setting and "Off".

4 **Press [SUBTITLE] to exit.**

DVD VIDEO AVCHD DivX

1 **During playback, press [SUBTITLE].**

2 **Use [▲ / ▼] to select your desired subtitle.**

- Use **[◄ / ►]** to switch between current subtitle setting and "Off".

3 **Press [SUBTITLE] to exit.**

Note

- Some discs will only allow you to change the subtitles from the disc menu or pop-up menu. Press **[TOP MENU]** or **[POP MENU / MENU]** to display the disc menu or pop-up menu.
- If 4-digit-language code appears in the subtitle menu, refer to "Language Code List" on page 40.
- If the disc has no subtitle language or subtitle style, "Not Available" will be displayed on the TV screen.
- During playback of the secondary video, the primary subtitle setting is not available except when there is no subtitle for the secondary video.
- If you select a language that has a 3-letter-language code, the code will be displayed every time you change the subtitle language setting. If you select any other languages, "---" will be displayed instead. (Refer to page 40.)
- For DivX® external subtitle, refer to "Playing Back a DivX® with DivX® External Subtitle" on page 19.

Switching Audio Soundtrack

Some BD, DVD, audio CD and AVCHD materials contain multiple audio streams. Those are often in different audio languages or audio formats. For BD, available audio varies depending on "BD Audio Mode" setting. Refer to page 28 for more information.

BD VIDEO

1 **During playback, press [AUDIO].**

2 **Use [▲ / ▼] to select the desired item to set, then press [ENTER].**

"Primary" : Sets the audio for the primary video.
"Secondary" : Sets the audio for the secondary video.

3 **Use [▲ / ▼] to select your desired audio stream channel.**

- For "Secondary", use [◄ / ►] to switch between current audio setting and "Off".

4 **Press [AUDIO] to exit.**

DVD VIDEO CD AVCHD DivX

1 **During playback, press [AUDIO].**

2 **Use [▲ / ▼] to select your desired audio stream channel.**

e.g.) DVD-video

- For audio CD, you can select following options.

"Stereo" : Both right and left channels are active (stereo).
"L-ch" : Only left channel is active.
"R-ch" : Only right channel is active.

3 **Press [AUDIO] to exit.**

- For DTS-CD (5.1 music disc), "DTS" will be displayed. (Selecting audio streams or channels is not available.)

Note

- The secondary audio will not be output when the secondary video is not displayed or when "BD Audio Mode" is set to "HD Audio Output". (For some BDs, secondary audio will be output even when secondary video is off.)
- The sound mode cannot be changed during playback of discs not recorded in multiple audio.
- Some discs allow changing the audio language setting on the disc menu. (Operation varies depending on the discs. Refer to the manual accompanying the disc.)
- **[AUDIO]** may not work on some discs with multiple audio streams or channels (e.g. DVDs that allow changing audio setting on the disc menu).
- If you select a language that has a 3-letter-language code, the code will be displayed every time you change the audio language setting. If you select any other languages, "---" will be displayed instead. (Refer to page 40.)
- Audio Language selection cannot be made during rapid playback. (Refer to page 22.)
- If 4-digit-language code appears in the audio menu, refer to page 40.
- If the disc has no audio language, "Not Available" will be displayed on the TV screen.

Setting the BD Audio Mode

There are 2 options for "BD Audio Mode" setting; either by setting the output to the secondary and interactive audio accompanied by the primary audio or by setting only the primary audio. (Refer to pages 33-34 for more information.)

1 **In stop mode, press [MODE] repeatedly until appears .**

2 **Use [▲ / ▼] to change the setting.**

"Mix Audio Output":
If it is available, BD-video's secondary and interactive audio will be output with the primary audio.
- The secondary audio is the audio for the secondary video (Director's commentary, etc.) and the interactive audio is the audio for the interactive application (Button click sounds etc.).

"HD Audio Output":
Only the primary audio will be output. Set this mode in order to output , Dolby Digital Plus, Dolby TrueHD, or DTS-HD audio of BD through HDMI connection.

3 **Press [RETURN] to exit.**

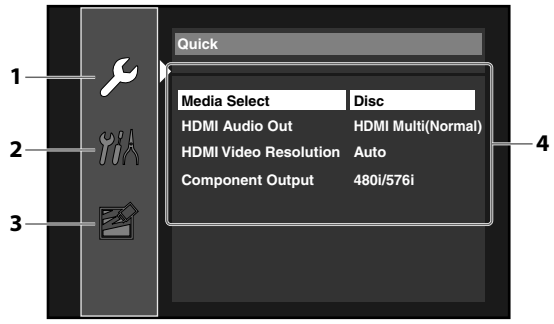
Note

- You can also set "BD Audio Mode" from the setup menu. Refer to page 28.
- Refer to "Audio signals output from HDMI OUT jack" on page 33 and "Audio signals output from DIGITAL OUT (OPTICAL / COAXIAL) jack" on page 34 for how BD Audio will be output.
- In "Mix Audio Output" mode, if there is no secondary and interactive audio, the audio will be output as "HD Audio Output" mode.

FUNCTION SETUP

In the setup menu screen, you can access various kinds of menus, and customise them as you prefer. To call up the setup menu screen, press **[SETUP]**. Then follow the instructions below to navigate through the screen.

< Setup menu screen >



1. **Quick menu**
   Contains only the frequently used menus.
2. **Custom menu**
   Contains all the available setup menus.
3. **Initialise menu**
   Contains the menus that relates to the initialisation of the unit or the SD card.
4. **Menu window**
   Displays the available items for the selected menu.

How to Navigate through the Setup Menus

- Use **[▲ / ▼]** to move the highlight up and down.
- Press **[ENTER]** to access the options of an item, to switch settings, or to confirm the selection.
- Use **[◄ / ►]** to switch settings in some menus.
- Press **[RETURN]** to go back to the previous screen.
- Press **[SETUP]** to exit.

List of Setup Menus

Items with (*) can be accessed from "Quick" menu also.
The items highlighted in grey are the default setting.

	Category	Menus / Options			Description
Custom	Language	Audio BD VIDEO DVD VIDEO AVCHD	Original English German French Italian Spanish Dutch Swedish Russian	Chinese Japanese Korean Danish Finnish Norwegian Icelandic Hungarian Romanian Turkish Greek Irish Portuguese Polish Czech Slovak Bulgarian Other	Sets the audio language for BD-video, DVD-video or AVCHD file playback. **"Original":** Activates the disc's original language. **"Other":** If you select "Other", enter 4-digit-code for the desired language (refer to page 40).
		Subtitle BD VIDEO DVD VIDEO AVCHD	Off English German French Italian Spanish Dutch Swedish Russian	Chinese Japanese Korean Danish Finnish Norwegian Icelandic Hungarian Romanian Turkish Greek Irish Portuguese Polish Czech Slovak Bulgarian Other	Sets the subtitle language for BD-video, DVD-video or AVCHD file playback. **"Other":** If you select "Other", enter 4-digit-code for the desired language (refer to page 40).
		Disc Menu BD VIDEO DVD VIDEO AVCHD	English German French Italian Spanish Dutch Swedish Russian Chinese	Japanese Korean Danish Finnish Norwegian Icelandic Hungarian Romanian Turkish Greek Irish Portuguese Polish Czech Slovak Bulgarian Other	Sets the language for disc menu. **"Other":** If you select "Other", enter 4-digit-code for the desired language (refer to page 40).
		DivX Subtitle DivX	English German French Italian Spanish Dutch Swedish Russian1 Russian2	Portuguese Polish	Sets the language for DivX® subtitle. If the DivX® subtitle file contains more than one subtitle language, you can toggle those by pressing **[SUBTITLE]** repeatedly.

FUNCTION SETUP

	Category	Menus / Options		Description
Custom	Video	TV Aspect • Refer to page 32 for more information.	16:9 Wide 4:3 Pan & Scan 4:3 Letter Box 16:9 Squeeze	Sets the aspect ratio of the playback image to fit your TV.
		HDMI Video Resolution* • This feature is available only when the display device is connected by an HDMI cable. • Refer to page 32 for more information.	Auto 480p/576p 720p 1080i 1080p 1080p24	Sets the resolution of the video signal being output from the HDMI OUT jack.
		HDMI Deep Color • This feature is available only when the display device is connected by an HDMI cable, and when it supports Deep Colour feature.	Auto Off	Reduces the posterisation effect of the playback picture. **"Auto":** Reduces the posterisation effect by automatically outputting up to 12 bit colour whenever the unit recognises the connected display device supports Deep Colour feature. **"Off":** Outputs the standard 8 bit colour.
		Component Output*	480i/576i 480p/576p 720p 1080i	Sets the resolution for the component output picture.
		Progressive Mode	Auto Video	**"Auto":** The progressive mode will detect 24-frame film material (movies) and automatically select appropriate progressive mode. **"Video":** Suited for playing back video material discs (TV shows or animation).
		Still Mode	Auto Field Frame	Adjusts picture resolution and quality in still mode. **"Auto":** Automatically selects the best resolution setting ("Frame" or "Field") based on the data characteristics of the pictures. **"Field":** Stabilises the pictures, although the picture quality may become coarse due to the limited amount of data. Select "Field" when the pictures are still unstable even if "Auto" is selected. **"Frame":** Displays relatively motionless pictures in higher resolution. "Frame" improves the picture quality, although it may unstabilise the pictures due to alternate output of 2-field data. • An individual picture on the TV screen is called "Frame", which consists of two separate images called "Field". Some pictures may be blurred at the auto setting in "Still Mode" setting due to their data characteristics.
	Audio	BD Audio Mode BD VIDEO	Mix Audio Output HD Audio Output	For BD, selects whether to output the secondary and interactive audio with primary audio if it is available or only the primary audio. Refer to "Setting the BD Audio Mode" on page 26. **"Mix Audio Output":** The audio for the secondary video and the interactive application will be output together with the audio for the primary video. **"HD Audio Output":** Outputs only the primary audio. Set this mode in order to output Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS or DTS-HD audio of BD through HDMI connection.

FUNCTION SETUP

Category	Menus / Options					Description	
Custom	Audio	HDMI Audio Out* • This feature is available only when the display device is connected by an HDMI cable. • Refer to page 33 for more information.	HDMI Multi (Normal)			Outputs the multi-channel audio signals from HDMI OUT jack with bitstream or LPCM.	Sets the audio format for the sound output from the HDMI OUT jack. • For "Speaker Size" and "Delay Time", if you change the setting of one speaker, the rest of the speakers will be set automatically. For "Delay Time", difference of the values among "Front", "Surround" and "Surround Back" cannot exceed 4.5m (15 ft), and between "Front" and "Center" it cannot exceed 1.5m (5 ft). • For "Delay Time", the value of "Center", "Surround" and "Surround Back" cannot exceed the value of "Front".
			HDMI Multi (LPCM)	Speaker Size	Front: Large / Small Center: Small / Large Subwoofer: On / Small Surround: Large / Small Surround Back: Small / Large Default	Sets the speaker configuration to suite the size/number of your speakers. Press **[ENTER]** to change the setting.	
				Channel Level	Test Tone: Off / Manual / Auto Default	Outputs the test tone from each speaker. Use **[◄ / ►]** to switch options, then press **[ENTER]** to confirm. • Test tone will be output automatically. • To stop the test tone, press **[RETURN]**. **"Manual":** Allows you to manually select the speaker to test. Use **[▲ / ▼]** to select the speaker. Use **[◄ / ►]** to adjust the volume. **"Auto":** Automatically tests all speakers. Use **[◄ / ►]** to adjust the volume.	
					Front Lch / Center / Subwoofer / Front Rch / Surround Rch / Surround Back Rch / Surround Back Lch / Surround Lch: -12 to 0dB (Default 0dB) Default	Sets the volume level for each speaker to get the ideal audio balance. Use **[◄ / ►]** to change the setting.	
				Delay Time	Distance: Feet / Meters Default	Sets the desired measure system. This measure system will be used for "Delay Time" setting. Use **[◄ / ►]** to change the setting.	
					Front / Center: 0 to 18m (Default 3.6m) Surround / Surround Back: 0 to 18m (Default 3.0m) Default	Sets the distance from the listening point to the speaker to get the ideal delay time. Use **[◄ / ►]** to change the setting.	
			Audio Mute • Refer to "Digital Out" setting on page 34 for setting options.	Digital Out	Bitstream / LPCM	**"Bitstream"**: When playing back discs recorded in Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS or DTS-HD, the corresponding core stream (Dolby Digital or DTS) are output. **"LPCM"**: LPCM signal will be output from DIGITAL OUT jack.	Sets the audio format output from DIGITAL OUT jack.

FUNCTION SETUP

	Category	Menus / Options			Description
Custom	Audio	Down Sampling	On Off		Sets the digital audio output when playing back BD or DVD recorded in LPCM. **"On":** LPCM signals are converted to 48 kHz for output. Set to "On" when using digital connections to an AV amplifier that is not compatible with sampling frequencies of 96 kHz. **"Off":** For BD and DVD recorded in LPCM without copyright protection, 2-channel audio signals up to 192 kHz are output as LPCM signals with no conversion.
		DRC	Auto On Off		Sets whether to compress the range of sound volume (dynamic range control) when Dolby Digital, Dolby Digital Plus or Dolby TrueHD audio is played back.
	Parental • Refer to page 35 for more information.	Password input field	BD Rating Level	All Age Setting	Sets the rating level for the disc playback.
			DVD Rating Level	All 8 to 1	Sets the rating level for the disc playback.
			Password Change	Password input field	Sets the new password for "Parental" setting.
	Others	Angle Icon	On Off		Sets whether to display the angle icon on the TV when playing back the scene with various angles.
		Auto Power Off	On Off		Sets whether to turn off the unit (to the standby mode) automatically after 30 minutes of no action.
		Panel Display	Auto Bright Dimmer		Sets the brightness of the front panel display. When "Auto" is selected, the front panel display automatically goes dim during playback.
		DivX® VOD DivX	Registration Code	Your registration code is : 〇〇〇〇〇〇〇〇〇〇 To learn more visit www.divx.com/vod	This menu item provides you with the DivX® VOD registration code. The DivX® registration code is required when downloading the DivX® VOD files from the Internet. To learn more about DivX® VOD, visit www.divx.com/vod.
			Deactivation Code	Your deactivation code is : 〇〇〇〇〇〇〇〇 To learn more visit www.divx.com/vod	This menu item provides you with the DivX® VOD deactivation code. The DivX® deactivation code is required when re-downloading the DivX® VOD files from the Internet after deactivating. To learn more about DivX® VOD, visit www.divx.com/vod.
			Deactivation	No Yes	This menu deactivates the DivX® VOD files and provides you with new registration code and deactivation code in order to download the DivX® VOD files from the Internet.
		HDMI CEC • This feature is available only when the display device is connected with an HDMI cable, and when it supports HDMI CEC feature. • Refer to page 35 for more information.	On Off		Sets whether to utilise the HDMI CEC function.
		Media Select*	Disc SD Card		Select the media to play back.

FUNCTION SETUP

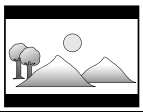
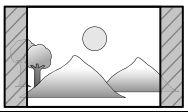
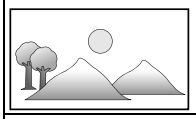
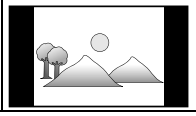
Category	Menus / Options				Description
Custom	Others	Network Connection • Refer to pages 36-38 for more information.	Connection Test		Performs the network connection test. After you change the IP Address or DNS Setting, always perform this test.
			Enable (Easy)		If you select "Enable(Easy)", Connection test will automatically start.
			Enable (Custom)	IP Address Setting: Auto (DHCP) / Manual	Sets the IP Address. In most cases, you can connect to the Internet without making any changes to the default setting.
				IP Address / Subnet Mask / Default Gateway: Input field	Allows you to set "IP Address", "Subnet Mask" and "Default Gateway" manually. • Available only when "Manual" is selected in "IP Address Setting".
				DNS Setting: Auto (DHCP) / Manual	Sets the DNS Setting. In most cases, you can connect to the Internet without making any changes to the default setting.
				Primary DNS / Secondary DNS: Input field	Allows you to set "Primary DNS" and "Secondary DNS" manually. • Available only when "Manual" is selected in "DNS Setting".
				Proxy Setting: Do Not Use / Use	Sets the proxy server. In most cases, you can connect to the Internet without using proxy server.
				Proxy Address / Proxy Port: Input field	Allows you to set "Proxy Address" and "Proxy Port" manually. • Available only when "Use" is selected in "Proxy Setting".
				Connection Speed: Auto / 10BASE Half / 10BASE Full / 100BASE Half / 100BASE Full	Sets the connection speed. In most cases, you can connect to the Internet without making any changes to the default setting.
				BD-Live Setting: Allow / Limited Allow / Prohibit	You can restrict Internet access when BD-Live functions are used.
				MAC Address	You can check the MAC Address.
			Disable		Deactivates the network connection.
		Software Update • Refer to page 39 for more information.	Current Version		Indicates the current firmware version.
			Disc Update: No / Yes		Allows you to update this unit's firmware using a disc.
Initialize	Setup	No / Yes	• Refer to page 39 for more information.		Resets all the settings, except for "Parental" and "Network Connection" to the factory default.
	Format SD Card	No / Yes			Re-formats SD card.
	Erase Saved BD-ROM Data (Player)	No / Yes			Re-formats local storage (Player) used for BD-Java.
	Erase Saved BD-ROM Data (SD Card)	No / Yes			Re-formats local storage (SD card) used for BD-Java.
	Network Settings	No / Yes			Initialises network settings.

FUNCTION SETUP

TV Aspect

[Setup] ➡ "Custom" ➡ "Video" ➡ "TV Aspect"

Use this feature to adjust the aspect ratio of the video source which is different from your TV's ratio to fit your TV monitor without distorting the picture. Descriptions of each setting are as follows:

Video source	Your TV	Option	Description
16:9	**4:3**	4:3 Letter Box 	To enjoy 16:9 picture on 4:3 monitor: 16:9 picture is scaled down until both sides of the picture fits the 4:3 TV.
		4:3 Pan & Scan 	To enjoy 16:9 picture on 4:3 monitor: Both sides of the picture are trimmed to fit the 4:3 TV without distorting the aspect ratio of the picture.
	16:9	16:9 Wide 	To enjoy 16:9 picture on 16:9 monitor: Select this setting when you want to enjoy 16:9 picture on the 16:9 TV.
4:3		16:9 Squeeze 	To enjoy 4:3 picture on 16:9 monitor: Use this setting to display 4:3 picture on the 16:9 TV without distorting the aspect ratio of the picture.

Note for "HDMI Video Resolution" and "Component Output"

- The selected resolution must also be supported by your display device.
- Even if you set "HDMI Video Resolution" setting to "Auto", when this unit is connected to a DVI compatible display devices with an HDMI-DVI cable, 480p/576p signal will be output.
- Video and audio signals may be distorted temporarily when switching to / from the HDMI output mode.
- You cannot change the video resolution during playback of BDs or AVCHD files. To change the resolution, stop playback.
- In order to get natural and high quality film reproduction of 24-frame film material, use an HDMI cable (High Speed HDMI Cable is recommended) and select "Auto" if the connected TV is compatible with 1080p24 frame input.
- For AVCHD / DivX® files, and for discs with the contents which are not compatible with 1080p24 frame, 1080p60 frame will be output even if the connected TV is compatible with 1080p24 frame input and you set "HDMI Video Resolution" setting to "Auto" or "1080p24".
- Pressing **[PLAY ►]** on the front panel for 5 seconds changes the setting back to its default.
- When you change the resolution, the TV monitor temporarily goes blank and then comes back again. This is not a malfunction.
- If you have selected the resolution not supported by your TV by mistake and the picture gets disturbed or goes blank and does not come back, press and hold **[PLAY ►]** on the front panel for 5 seconds to change the setting back to its default.
- When HDMI cable is connected, only "480i/576i" and the resolution selected in "HDMI Video Resolution" will be available for "Component Output".
- If the video resolution for the component output and HDMI video resolution do not match, the video resolution for the component output will be switched to "480i/576i".
- If you play back copy-protected DVD-video, 480p/576p signal will be output from COMPONENT VIDEO OUT jacks, even when "Component Output" setting is set to "720p" or "1080i".
- With some copy-protected BD-video, the video image may only be output from HDMI OUT jack.
- Refer also to your TV's manual.

HDMI Audio Out

[Setup] ➡ "Quick" ➡ "HDMI Audio Out"

Device to be connected	"HDMI Audio Out" setting	Output HDMI audio signal
Device compatible with Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS or DTS-HD decoding	HDMI Multi(Normal)	Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS, or DTS-HD bitstream are output from HDMI OUT jack. Make the speaker settings on the connected AV amplifier, etc.
Device compatible with 3 or more channels of audio inputs (not Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS or DTS-HD compatible)	HDMI Multi(LPCM)	Multi-channel audio signals are output from HDMI OUT jack. Make the speaker settings with the speaker setting items appear after you select "HDMI Multi(LPCM)". Refer to page 29.
HDMI connection to a TV and digital audio connection (optical / coaxial) to an AV amplifier	Audio Mute	HDMI audio will be mute, and Dolby Digital / DTS bitstream or LPCM will be output from DIGITAL OUT jack depending on "Digital Out" setting. Refer to page 34.

Audio signals output from HDMI OUT jack

Media	Recording format	"HDMI Audio Out" setting			
		HDMI Multi(Normal)		HDMI Multi(LPCM)	
		When "BD Audio Mode" is set to "HD Audio Output"	When "BD Audio Mode" is set to "Mix Audio Output"	When "BD Audio Mode" is set to "HD Audio Output"	When "BD Audio Mode" is set to "Mix Audio Output"
BD-video	Dolby Digital	Dolby Digital	Dolby Digital	Multi LPCM	Multi LPCM
	Dolby Digital Plus	Dolby Digital Plus	Dolby Digital*2	Multi LPCM*1	Multi LPCM*2
	Dolby TrueHD	Dolby TrueHD	Dolby Digital*4	Multi LPCM*3	Multi LPCM*4
	DTS	DTS	DTS	Multi LPCM*6	Multi LPCM*6
	DTS-HD	DTS-HD	DTS*5	Multi LPCM*1, *6	Multi LPCM*5, *6
	LPCM	Multi LPCM	Multi LPCM	Multi LPCM	Multi LPCM
DVD-video	Dolby Digital	Dolby Digital		Multi LPCM	
	DTS	DTS		Multi LPCM	
	LPCM	2ch LPCM		2ch LPCM	
	MPEG	MPEG		Multi LPCM	
AVCHD	Dolby Digital	Dolby Digital		Multi LPCM	
	LPCM	2ch LPCM		Multi LPCM	
DivX®	Dolby Digital	Dolby Digital		Multi LPCM	
	MP3 / MP2	2ch LPCM		2ch LPCM	
audio CD / MP3 / Windows Media™ Audio		2ch LPCM		2ch LPCM	
DTS-CD		DTS		Multi LPCM	

*1) Full decoded.
*2) Only the independent substream is decoded.
*3) Dolby TrueHD stream is decoded.
*4) Only the Dolby Digital substream is decoded.
*5) Only the core substream is decoded.
*6) When audio source is Multi-channel, decoded as 7.1ch. However, number of the output audio channel will depend on the number of the connected speakers.

- If the connected device is not compatible with the HDMI BITSTREAM, audio will be output as multi LPCM or 2-channel down-mixed LPCM depending on the capability of the connected device even if you select "HDMI Multi(Normal)" in "HDMI Audio Out" setting.
- When playing back a BD-video which only contains the primary audio, the audio output will be the same case as the "HD Audio Output" even if the "BD Audio Mode" is set to "Mix Audio Output".

Note

- The audio signals from HDMI OUT jack (including the sampling frequency, the number of channels and bit length) maybe limited by the device that is connected.
- Among the devices that support HDMI, some do not support audio output (e.g. projectors). In connections with device such as this unit, audio signals are not output from HDMI OUT jack.
- Video and audio signals may be distorted temporarily when switching to / from the HDMI output mode.

Digital Out

[Setup] ➡ "Quick" ➡ "HDMI Audio Out" ➡ "Audio Mute" ➡ "Digital Out"

When "Audio Mute" is selected in "HDMI Audio Out" setting, HDMI audio signal will be mute and the audio signals output from DIGITAL OUT jack changes depending on "Digital Out" setting.

Audio signals output from DIGITAL OUT (OPTICAL / COAXIAL) jack

Media	Recording format	"Digital Out" setting			
		Bitstream		LPCM	
		When "BD Audio Mode" is set to "HD Audio Output"	When "BD Audio Mode" is set to "Mix Audio Output"	When "BD Audio Mode" is set to "HD Audio Output"	When "BD Audio Mode" is set to "Mix Audio Output"
BD-video	Dolby Digital	Dolby Digital	Dolby Digital	2ch Downmix LPCM	2ch Downmix LPCM
	Dolby Digital Plus	Dolby Digital	Dolby Digital	2ch Downmix LPCM	2ch Downmix LPCM
	Dolby TrueHD	Dolby Digital	Dolby Digital	2ch Downmix LPCM	2ch Downmix LPCM
	DTS	DTS	DTS	2ch Downmix LPCM	2ch Downmix LPCM
	DTS-HD	DTS	DTS	2ch Downmix LPCM	2ch Downmix LPCM
	LPCM	2ch Downmix LPCM	2ch Downmix LPCM	2ch Downmix LPCM	2ch Downmix LPCM
DVD-video	Dolby Digital	Dolby Digital		2ch Downmix LPCM	
	DTS	DTS		2ch Downmix LPCM	
	LPCM	2ch LPCM		2ch LPCM	
	MPEG	MPEG		Multi LPCM	
AVCHD	Dolby Digital	Dolby Digital		2ch Downmix LPCM	
	LPCM	2ch Downmix LPCM		2ch Downmix LPCM	
DivX®	Dolby Digital	Dolby Digital		2ch Downmix LPCM	
	MP3 / MP2	2ch LPCM		2ch LPCM	
audio CD / MP3 / Windows Media™ Audio		2ch LPCM		2ch LPCM	
DTS-CD		DTS		2ch Downmix LPCM	

- When playing back a BD-video which only contains the primary audio, the audio output will be the same case as the "HD Audio Output" even if the "BD Audio Mode" is set to "Mix Audio Output".

Note

- In order to output LPCM signal from DIGITAL OUT jack while outputting the HDMI audio signal, set "HDMI Audio Out" setting to "HDMI Multi(LPCM)".

FUNCTION SETUP

Parental

[Setup] ➡ "Custom" ➡ "Parental"

Some BD-videos or DVD-videos feature a parental lock level.
Playback will stop if the ratings exceed the levels you set, it will require you to enter a password before the disc will play back. This feature prevents your children from viewing inappropriate material.

1. **With "🔒" selected press [ENTER].**
   Password input field appears.
2. **If a password has not been set, follow A).**
   If a password has already been set, follow B).
   If you want to change the password, follow B) and C).
   If you forget the password, follow D).
   A) Enter 4 digit password using **[Number buttons]**.
   • "4737" cannot be used.
   B) Enter 4 digit password
   C) Select "Password Change", then press **[ENTER]**. Enter the new password.
   D) Enter "4737". Current password and "Parental" settings are now cleared. Enter a new password.
3. **Select the desired item to set the rating level for, then press [ENTER].**
4. **Select the desired rating level, then press [ENTER].**

<BD rating level>

All	Sets no limit.
Age Setting	Allows you to enter the age to limit, and prohibits the playback of a disc whose rating level exceeds the age setting entered here. • Enter the age as a 3-digit-number. (e.g., For age 15, enter [0], [1], [5].)

<DVD rating level>

All	Parental control is inactive; all discs can be played back.
8	DVD software of any grades (adult / general / children) can be played back.
7	**[NC-17]** No one under 17 admitted.
6	**[R]** Restricted; under 17 requires accompanying parent or adult guardian.
5	**[PGR]** Parental Guidance Recommended.
4	**[PG13]** Unsuitable for children under 13.
3	**[PG]** Parental Guidance suggested.
2	**[G]** General audience.
1	Suitable for children.

To Cancel Parental Lock Temporarily

Some discs allow you to cancel the parental lock temporarily. With those discs, the message below will appear when you try to play them back.
"Enter current password."
Follow the instruction which appears on the TV screen to cancel the parental lock.

HDMI CEC (REGZA - LINK)

[Setup] ➡ "Custom" ➡ "Others" ➡ "HDMI CEC"

You can control all HDMI CEC compatible components connected via an HDMI cable by simple button operations of the remote control of this unit. In order to enable the function, you need to set "HDMI CEC" to "On".

One Touch Play

When the operations with following buttons of the remote control of this unit are performed, the TV will automatically be turned on and switched to the appropriate input channel.
Buttons for one touch play:
- **[PLAY ▶]**
- **[TOP MENU]**, or **[POP MENU / MENU]** (when a disc is inserted in the unit)

Standby

When you press and hold **[ON/STANDBY ⏻]** for 2 seconds, it turns off the power of the TV first and then turns off the power of this unit.
When the connected HDMI CEC compatible display device is turned off, this unit may also turn off together.

System Information

Receiving Operational Signal from TV's Remote Control

You can operate this unit with TV's remote control. Check your TV owner's manual for details.
- This function may not work properly depending on the connected TV.
- The available operation may differ depending on the TV's remote control you use.
- Other components must be compatible with HDMI CEC in order to use this function.

Network Connection

Set up the network connection settings in order to use the BD-Live function with a BD-Live disc.

Connection Test

[Setup] ➡ "Custom" ➡ "Others" ➡ "Network Connection" ➡ "Connection Test"

After you made IP address/DNS settings or when a LAN cable is connected, always perform the connection test to check if the connection is correctly made.

1 **In stop mode, press [SETUP].**

2 **Use [▲ / ▼] to select , then press [ENTER].**

3 **Use [▲ / ▼] to select "Others", then press [ENTER].**

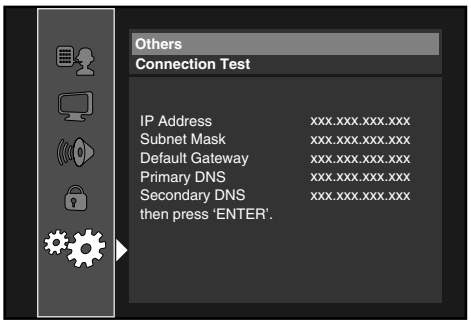
4 **Use [▲ / ▼] to select "Network Connection", then press [ENTER].**

5 **Use [▲ / ▼] to select "Connection Test", then press [ENTER].**

Connection test will start automatically and the test result will appear right after the connection test finishes.

- "Testing..." : The test is in progress.
- "Pass" : Connection test is successfully completed.
- "Fail" : Connection test failed. Check the connection settings.

Press **[ENTER]** to go to the list of network status confirmation screen.



6 **Press [ENTER] to go back to the previous screen, or press [SETUP] to exit.**

Note

- If the connection test passes, you can enjoy the BD-Live functions using the Internet without making any extra settings.
- If the connection test fails, you may need to change the MAC address settings of your router. You can check the MAC address of this unit on "Enable(Custom)" screen.
- "Connection Test" is not available when "Disable" is selected in "Network Connection".

Enable(Easy)

[Setup] ➡ "Custom" ➡ "Others" ➡ "Network Connection" ➡ "Enable (Easy)"

Network settings are set to the following settings initially. (In most cases, you can connect to the Internet without making any changes to the default settings.)

- IP Address Setting Auto(DHCP)
- DNS Setting Auto(DHCP)
- Proxy Setting Do Not Use
- Connection Speed Auto
- BD-Live Setting Allow

If you want to set the network settings back to the default settings as above (except "BD-Live Setting"), follow the procedure below.

1 **Follow steps 1 to 4 in "Connection Test" on page 36.**

2 **Use [▲ / ▼] to select "Enable(Easy)", then press [ENTER].**

- The unit will start the connection test automatically and the test result will appear right after the test finishes.
- After the connection test finishes, press **[ENTER]** to go to network status confirmation screen.

3 **Press [ENTER] to activate the network settings and set the network connection automatically. Press [SETUP] to exit.**

Note

- The setting of "BD-Live Setting" will not be set back to the default, even if you follow the procedure.

Enable(Custom)

[Setup] ➡ "Custom" ➡ "Others" ➡ "Network Connection" ➡ "Enable (Custom)"

In following cases, select "Enable(Custom)" to set each setting as necessary.

- When connection test failed with the setting of "Enable(Easy)".
- When instructed by your Internet service provider to make specific settings in accordance with your network environment.

IP Address Setting / DNS Setting

1 **Follow steps 1 to 4 in "Connection Test" on page 36.**

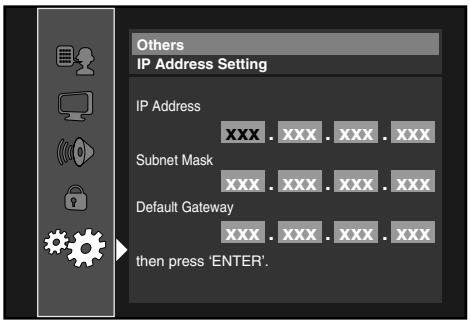
2 **Use [▲ / ▼] to select "Enable(Custom)", then press [ENTER].**

3 **Use [▲ / ▼] to select "IP Address Setting", then press [ENTER] repeatedly to select the desired setting.**

"Auto(DHCP)"	: If your router has DHCP server function, select "Auto(DHCP)".
"Manual"	: If your router does not have DHCP server function, select "Manual".

If you select "Manual", follow the following instruction to set the IP address and DNS.

1) Use **[▲ / ▼]** to select "IP Address", "Subnet Mask" or "Default Gateway", then press **[ENTER]**. IP address setting screen will appear. Enter IP address, subnet mask and default gateway with cursor buttons and number buttons.



- Enter the IP address number after checking the specifications of your router.
- If the IP address number is unknown, check the IP address number of other devices (e.g. PC connected via LAN cable) and assign a different number from those of other devices.

2) After you enter all correctly, press **[ENTER]**.
   - Confirmation message will appear. Select "Yes" to complete the settings.

3) Use **[▲ / ▼]** to select "Primary DNS" or "Secondary DNS", then press **[ENTER]**. DNS setting screen will appear. Enter primary DNS and secondary DNS with cursor buttons and number buttons.
   - Enter the numbers instructed by your Internet provider.
   - If the number is unknown, check the number of other devices (e.g. PC connected via LAN cable) and assign the same number.

4) After you enter all correctly, press **[ENTER]**.
   - Confirmation message will appear. Select "Yes" to complete the settings.

4 Press [RETURN] to go back to the previous screen, or press [SETUP] to exit.

Note

- The range of input number is between 0 and 255.
- If you enter a number larger than 255, the number will automatically be 255.
- The manually entered number will be saved even if you change the setting to "Auto(DHCP)".
- When you enter a wrong number, press **[CLEAR]** to cancel. (The number will be back to "0".)
- If you want to enter 1 or 2 digit number in one cell, press **[►]** to move on to the next cell.
- If the entered IP address or the default gateway or primary DNS number is same as the default setting, IP address setting will be set to "Auto(DHCP)". (The manually entered number will be saved.)
- When IP address setting is set to "Manual", the setting of DNS setting will automatically be "Manual" and when IP address setting is set to "Auto(DHCP)", you can set either "Auto(DHCP)" or "Manual" for DNS setting.

Proxy Setting

1 Follow steps 1 to 4 in "Connection Test" on page 36.

2 Use [▲ / ▼] to select "Enable(Custom)", then press [ENTER].

3 Use [▲ / ▼] to select "Proxy Setting", then press [ENTER] repeatedly to select the desired setting.

- For default settings, select "Do Not Use".
- If you need to change the proxy setting as instructed by your Internet service provider to set the designated proxy address and port, select "Use".

If you select "Use", follow the following instructions to set the proxy address and proxy port.

1) Use **[▲ / ▼]** to select "Proxy Address", then press **[ENTER]**. Proxy address setting screen will appear. Enter proxy address.
   - The keyboard screen will appear.

[▲ / ▼ / ◄ / ►]	: Move the highlight.
[Number buttons]	: Enter number.
[ENTER]	: Enter the highlighted number/word.
[Red]	: Clear the entered number or word.
[Green]	: Clear all the entered numbers or words.
[Yellow]	: Switch between abc ? ABC ? @!?
[Blue]	: Set the entered number or word.

2) After you enter proxy address correctly, press **[Blue]**.
   - Confirmation message will appear. Select "Yes" to complete the settings.

3) Use **[▲ / ▼]** to select "Proxy Port" , then press **[ENTER]**. Proxy port setting screen will appear. Enter proxy port number with number buttons.

4) After you enter proxy port correctly, press **[ENTER]**.

4 Press [RETURN] to go back to the previous screen, or press [SETUP] to exit.

Note

- The range of input number for the port number is between 0 and 65535. (If you enter a number larger than 65535, it will be regarded as 65535.)
- For proxy port, the selected ports may be blocked and not be able to use depending on your network environment.

Connection Speed

You can set connection speed as your preference. (The default setting is "Auto".)

1. **Follow steps 1 to 4 in "Connection Test" on page 36.**
2. **Use [▲ / ▼] to select "Enable(Custom)", then press [ENTER].**
3. **Use [▲ / ▼] to select "Connection Speed", then press [ENTER].**
4. **Use [▲ / ▼] to select the desired setting, then press [ENTER].**

"Auto":
Set the appropriate connection speed automatically, in accordance with your network environment.

"10BASE Half"	:	Set the connection speed to **"10BASE Half"**.
"10BASE Full"	:	Set the connection speed to **"10BASE Full"**.
"100BASE Half"	:	Set the connection speed to **"100BASE Half"**.
"100BASE Full"	:	Set the connection speed to **"100BASE Full"**.

5. **Press [RETURN] to go back to the previous screen, or press [SETUP] to exit.**

Note

- Choose a connection speed in accordance with your network environment.
- The network connection may be disabled depending on the device, when the settings are changed.

BD-Live Setting

You can limit the Internet access from the BD-Live functions. (The default setting is "Allow".)

1. **Follow steps 1 to 4 in "Connection Test" on page 36.**
2. **Use [▲ / ▼] to select "Enable(Custom)", then press [ENTER].**
3. **Use [▲ / ▼] to select "BD-Live Setting", then press [ENTER].**
4. **Use [▲ / ▼] to select the desired setting, then press [ENTER].**

"Allow":
Internet access is permitted from all BD-Live contents.
"Limited Allow":
Internet access is permitted only for BD-Live contents which have content owner certificates. Internet access without the certificates are prohibited.
"Prohibit":
Internet access is prohibited from all BD-Live contents.

5. **Press [RETURN] to go back to the previous screen, or press [SETUP] to exit.**

Disable

Deactivate all the network connection and settings.

1. **Follow steps 1 to 4 in "Connection Test" on page 36.**
2. **Use [▲ / ▼] to select "Disable", then press [ENTER].**
3. **Press [RETURN] to go back to the previous screen, or press [SETUP] to exit.**

Note

- The network connection can be reactivated by setting the network connection to "Enable(Easy)" or "Enable(Custom)".

FUNCTION SETUP

Software Update

Current Version

You can confirm the current software version.

1. **Follow steps 1 to 3 in "Connection Test" on page 36.**
2. **Use [▲ / ▼] to select "Software Update", then press [ENTER].**
3. **Use [▲ / ▼] to select "Current Version", then press [ENTER].**
4. **Press [ENTER] or [RETURN] to exit.**

Note

- Please visit http://www.toshiba-om.net to download the latest firmware version.

Disc Update

You can upgrade the software by using disc.

1. **Follow steps 1 to 3 in "Connection Test" on page 36.**
2. **Use [▲ / ▼] to select "Software Update", then press [ENTER].**
3. **Use [▲ / ▼] to select "Disc Update", then press [ENTER].**
4. **Use [▲ / ▼] to select "Yes", then press [ENTER].**
5. **Disc tray will open automatically.**
   - Insert the disc for software update and then press **[OPEN/CLOSE ⏏]**.
6. **After completing loading disc, confirmation message will appear. Select "Yes" and press [ENTER] to start upgrading.**
   - It may take awhile to complete the updating. (Please wait until "100%" appears on the front panel display.)
7. **After the disc upgrade finishes, this unit will restart and eject the disc.**

Note

- You can check the current firmware version in "Current Version" in "Software Update" menu.
- Please do not unplug the mains cable while executing "Disc Update".
- All settings will remain the same even if you update the firmware version.

Initialise

Initialise the setting or SD card.

1. **In stop mode, press [SETUP].**
2. **Use [▲ / ▼] to select , then press [ENTER].**
3. **Use [▲ / ▼] to select a desired option, then press [ENTER].**
   - Confirmation message will appear.

   "Setup":
   Resets the setup menu to the default.
   The setting for "Parental", "Network Connection" and "Media Select" will not be reset.

   "Format SD Card"
   (Available only when an SD card is inserted.):
   Initialises the SD card.

   "Erase Saved BD-ROM Data (Player)":
   Clears the data saved for the BD-ROM contents, such as BD-ROM game scores, from this player.

   "Erase Saved BD-ROM Data (SD Card)"
   (Available only when an SD card is inserted.):
   Clears the supplemental data for the BD-ROM playback, such as subtitle data, from the SD card.

   "Network Settings":
   Resets the Network Settings menu to the default.
4. **Select "Yes", then press [ENTER].**
   - Press **[ENTER]** again to complete the settings.
5. **Press [SETUP] to exit.**

Caution

- Do not remove the SD card while executing "Format SD Card" or "Erase Saved BD-ROM Data (SD Card)". It damages the card.

OTHERS

Language Code List

Language	Code
A-B	
Abkhazian	4748
Afar	4747
Afrikaans	4752
Albanian	6563
Amharic	4759
Arabic	4764
Armenian	5471
Assamese	4765
Aymara	4771
Azerbaijani	4772
Bashkir	4847
Basque	5167
Bengali;Bangla	4860
Bhutani	5072
Bihari	4854
Bislama	4855
Breton	4864
Bulgarian [BUL]	4853
Burmese	5971
Byelorussian	4851
C-E	
Cambodian	5759
Catalan	4947
Chinese [CHI]	7254
Corsican	4961
Croatian	5464
Czech [CZE]	4965
Danish [DAN]	5047
Dutch [DUT]	6058
English [ENG]	5160
Esperanto	5161
Estonian	5166
F-H	
Faroese	5261
Fiji	5256
Finnish [FIN]	5255
French [FRE]	5264
Frisian	5271
Galician	5358
Georgian	5747
German [GER]	5051
Greek [GRE]	5158
Greenlandic	5758
Guarani	5360
Gujarati	5367
Hausa	5447
Hebrew	5569
Hindi	5455
Hungarian [HUN]	5467
I-K	
Icelandic [ICE]	5565
Indonesian	5560
Interlingua	5547
Interlingue	5551
Inupiak	5557
Irish [IRI]	5347
Italian [ITA]	5566
Japanese [JPN]	5647
Javanese	5669
Kannada	5760
Kashmiri	5765
Kazakh	5757
Kinyarwanda	6469
Kirghiz	5771
Kirundi	6460
Korean [KOR]	5761
Kurdish	5767
L-N	
Laothian	5861
Latin	5847
Latvian;Lettish	5868
Lingala	5860
Lithuanian	5866
Macedonian	5957
Malagasy	5953
Malay	5965
Malayalam	5958
Maltese	5966
Maori	5955
Marathi	5964
Moldavian	5961
Mongolian	5960
Nauru	6047
Nepali	6051
Norwegian [NOR]	6061
O-R	
Occitan	6149
Oriya	6164
Oromo (Afan)	6159
Panjabi	6247
Pashto;Pushto	6265
Persian	5247
Polish [POL]	6258
Portuguese [POR]	6266
Quechua	6367
Rhaeto-Romance	6459
Romanian [RUM]	6461
Russian [RUS]	6467
S	
Samoan	6559
Sangho	6553
Sanskrit	6547
Scots Gaelic	5350
Serbian	6564
Serbo-Croatian	6554
Sesotho	6566
Setswana	6660
Shona	6560
Sindhi	6550
Singhalese	6555
Siswat	6565
Slovak [SLO]	6557
Slovenian	6558
Somali	6561
Spanish [SPA]	5165
Sundanese	6567
Swahili	6569
Swedish [SWE]	6568
T	
Tagalog	6658
Tajik	6653
Tamil	6647
Tatar	6666
Telugu	6651
Thai	6654
Tibetan	4861
Tigrinya	6655
Tonga	6661
Tsonga	6665
Turkish [TUR]	6664
Turkmen	6657
Twi	6669
U-Z	
Ukrainian	6757
Urdu	6764
Uzbek	6772
Vietnamese	6855
Volapuk	6861
Welsh	4971
Wolof	6961
Xhosa	7054
Yiddish	5655
Yoruba	7161
Zulu	7267

Note

- If you choose a language that has a 3-letter-language code (written in bracket), the code will be displayed every time you change the audio or subtitle language setting on page 25. If you choose any other languages, "---" will be displayed instead.

Troubleshooting

If the unit does not perform properly when operated as instructed in this manual, check the unit, consulting the following checklist.

Problem	Solution
No power	- Check if the mains cable is properly connected. - Unplug the mains cable once, and wait for 5-10 seconds and then plug it in again.
No sound or picture	- Check if the connected TV is turned on. - Check if the connections are made securely and correctly. - Check whether the connected TV or other device supports HDCP. (This unit will not output a video signal unless the other device supports HDCP.) - Check whether the output format of this unit (HDMI FORMAT) matches the supported input format of other connected device.
Distorted picture	- Sometimes a small amount of picture distortion may appear. This is not a malfunction. - Connect this unit directly to the TV. If the composite audio / video cables are connected to a VCR, pictures may be distorted due to the copy right protection system.
Completely distorted picture or black / white picture with BD / DVD	- Make sure the disc is compatible with this unit.
No sound or distorted sound	- Adjust the volume. - Check if speakers are connected correctly. - Check the HDMI connections. - Check the settings in “Audio” menu.
Picture freezes momentarily during playback	- Check the disc for fingerprints / scratches and clean with a soft cloth wiping from centre to edge. - Clean the disc.
Disc cannot be played back	- Clean the disc. - Ensure the disc label is facing up. - Check if the disc is defective by trying another disc. - Cancel the ratings control or change the control level. - Insert a correct disc that can be played back on this unit.
SD card cannot be read	- The format of the card does not match that accepted by this unit or the card is not compatible.
No return to start-up screen when disc is removed	- Reset this unit by turning it off, then on again.
The unit does not respond to the remote control	- Aim the remote control directly at infrared sensor window on the front panel. - Reduce the distance to infrared sensor window. - Replace the batteries in the remote control. - Re-insert the batteries with their polarities (+ / - signs) as indicated.
Buttons do not work or the unit stops responding	- To completely reset the unit, press and hold **[ON/STANDBY ⏻]** on the front panel for 10 seconds to shut down the unit or unplug the mains cable from the AC outlet for 5-10 seconds.
The unit does not respond to some operating commands during playback	- Operations may not be permitted by the disc. Refer to the instructions of the disc.
The unit cannot read BD / DVD/ CD	- Dew condensation may form inside the unit. Do not use this unit for at least a few hours until its inside gets dry. - You are attempting to play back a disc other than one with one of the logos on page 13. - Wipe the dirt off the disc or replace the disc.
Angle does not switch	- The angle cannot be switched for BD / DVD which do not contain multiple angles. In some cases multiple angles are only recorded for specific scenes.
Playback does not start when the title is selected	- Check the settings in “Parental” menu.
The password for rating level has been forgotten	- Enter the default password “4737”, then your forgotten password will be cleared.

OTHERS

Problem	Solution
Cannot connect to the network	- Check if the LAN cable connection is properly made. - Turn on the modem or broadband router. - Check the network setting. - Check if the broadband router and/or modem is correctly connected. - Check "BD-Live Setting".
Cannot connect to the network while my PC is connected to the network	- Check the content of your Internet service contract to see if your Internet service provider prevents multiple terminals connecting at the same time.
Cannot use the BD-Live function	- Use an SD card with enough space.
The playback of BD-video or download of data does not perform properly	- Check if an SD card is correctly inserted. Do not remove the card during playback as some BD-videos require an SD card for playback.

Note

- Some functions are not available in specific modes, but this is not a malfunction. Read the description in this manual for details on correct operations.
- Some functions are prohibited on some discs.

Specifications

General	
Signal system	NTSC/PAL colour
Power requirements	220-240 V AC, 50 Hz
Power consumption	22 W (standby: 0.5 W)
Dimensions (width x height x depth)	435 x 56 x 218 mm
Weight	2.4 kg
Operating temperature	5°C to 35°C
Operating humidity	Less than 80 % (no condensation)

Terminals		
Rear	**Video output** RCA jack x 1	1 Vp-p (75Ω)
	Component video output RCA jack x 3	Y: 1 Vp-p (75Ω) P_B/C_B: 700 mVp-p (75Ω) P_R/C_R: 700 mVp-p (75Ω)
	HDMI output HDMI jack x 1	Video: 480p/576p, 720p, 1080i, 1080p, 1080p24 / Audio
	Audio output (Analogue) RCA jack x 2	L/R: 2 Vrms (output impedance: more than 1kΩ)
	Audio output (Digital) RCA jack x 1 Optical jack x 1	500 mVp-p (75Ω) Digital connector
	LAN terminal	10BASE-T/100BASE-TX

Note

- The specifications and design of this unit are subject to change without notice.

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e2fsprogs	Exhibit A
linux	Exhibit A
module-init-tools	Exhibit A
mount	Exhibit A
netkit	Exhibit A
nettools	Exhibit A
sash	Exhibit A
util-linux	Exhibit A

Program name	EULA
directfb	Exhibit B
glibc	Exhibit B
Free Type	Exhibit C
LibJPEG	Exhibit C
Open SSL	Exhibit C

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That's all there is to it!

Exhibit C

Free Type

The FreeType Project LICENSE

2006-Jan-27

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David Turner, Robert Wilhelm, and Werner Lemberg

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